Approved For Release 2005/07/12 : CIA-RDP78T04743A000[illegible]10007-3

25X1 1745 TOP SECRET [redacted]

[redacted]
M/EB 410/63
25 September 1963
Copy 10

MEMORANDUM FOR: Chief, Defensive Systems Division, OSI

25X1 ATTENTION: [redacted]

FROM: Chief, CIA/PID (NPIC)

SUBJECT: Sary Shagan, Selected Installation Analysis

REFERENCE: (a) Requirements C-RR-3-80,342;
C-RR-3-80,342-Supplement 1; and
C-SI-3-80,436
(b) CIA/PID Project C 946-63

1. This memorandum is in response to your requirements dated 3 July 1963, 23 July 1963, and 31 July 1963, which requested: (1) Descriptions, line drawings and mensuration on buildings and structures in selected areas; (2) Photo reproductions of best or most current coverage; (3) Chronologies indicating status of construction on all missions providing usuable coverage; and (4) Details of continued activity at the graded dirt airstrip and other sites at the Sary Shagan Anti-Missile Test Center, USSR. The analysis of each installation is presented in the form of photo analyst's line drawings, corresponding keys with metrical data, and graphic textual chronologies on construction activity. Exceptions are the paragraphs on the graded dirt airstrip and the unidentified triangular installation at Radar Site No. 1, which simply update and modify recently forwarded chronologies on these installations.

a. Line drawings are usually unrectified projections of the photo image, in most cases using the excellent photography from [redacted] Being unrectified projections, the degree of orthographic distortion becomes more apparent as the distance between photo nadir point and the subject installation increases. A few of the large scale drawings are partially rectified to present a more accurate portrayal of shape and position relationships.

2. OBSERVATIONS BELIEVED SIGNIFICANT

a. The previously unidentified object on the roof of the largest of the three buildings forming a triad at Instrumentation Site 2 has been identified as a possible radar dish, circular in shape and probably mounted on a pedestal which may permit it to track in azimuth and elevation. Its circular shape has been confirmed by NPIC/TID.

b. A probably circular dish is mounted on top and to the rear of the large building in the triad at Instrumentation Site 13.

NGA Review Complete

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c. The possible radar dish observed at Launch Complex B [redacted] is mounted on top of an 85 foot tower standing on top of the largest of the triad of buildings. The dish is circular and is elevated at an angle of 55 degrees from the horizontal, on an azimuth of 85 degrees. On [redacted] the same dish, or a similar one, was seen on or near the ground alongside the large building.

25X1

d. A probably solid tower, approximately 80 feet high, has been erected at Instrumentation Site 2 sometime between [redacted] [redacted] reveals two probably dish shaped objects on the ground near the tower.

e. Construction activity near the triad of buildings at Launch Complex B has now developed a loop pattern of roads with possible missile launch positions having some resemblance to those seen at SA-1 HERRINGBONE missile launch sites.

25X1
25X1

f. Examination of all photography covering instrumentation sites numbered 2, 10, and 13, and Launch Complex B, reveals that construction of the [redacted] triad installations commenced sometime between [redacted] and [redacted] Construction activity at each of the sites has continued throughout the period under observation and does not appear to be complete as of [redacted] even though most buildings appear to be completed.

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g. Though Site 13 is referred to as an instrumentation site, it is unlike the other Sary Shagan sites where the unidentified triads have been constructed, in that the triad installation at Site 13 appears to be its sole reason for existance.

h. The azimuths of all triads pass through a circular area with a ten nautical mile radius, centered at 46-21N 073-17E. This area is located approximately 17 nautical miles ESE of Launch Complex A, 35 nautical miles NNW of Instrumentation Site 2 and 37 nautical miles ENE of Launch Complex B. (See attachment number 24)

i. The azimuth and elevation of the possible radar dish on the tower at Launch Complex B and on the large building at Instrumentation Site 2 have been computed and correlated with the line of site (perspective rays) from the photo satellite on [redacted] respectively. The correlation was computed by NPIC Technical Intelligence Division and is graphically depicted on attachments 25 and 26. Considering the possible margins of error due to the many variables, it can be concluded that it is possible that the camera satellite on [redacted] was being skin tracked by the dish at Launch Complex B; there is very little possibility that the dish at Instrumentation Site 2 was tracking [redacted]

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3. INSTRUMENTATION SITE NO. 2

a. Attachment number one (1) is a textual chronology through [redacted] It is keyed to the subsequent attachments.

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b. Attachment 2 is a graphic chronology of the entire instrumentation site area. The line drawing used as a base for this chronology is drawn from [redacted] Each page of the chronology illustrates those
25X1 features present in [redacted] and those which were under construction or missing as of a given date. The later information is portrayed with a color code, with the appropriate date and mission number added to the sheet.

c. Attachment 3 is a similar chronology of the instrumentation site operations area, at a much larger scale than Attachment 2.

d. Attachment 4 is the key to Attachment 3 and contains annotation identifications and structure dimensions.

e. Attachment 5 is a drawing showing the photo interpreter's perspective view of the large building in the triad, with its radar installation on the roof.

4. THE PREPARED EARTH AIRSTRIP

25X1
25X1 a. [redacted] reveals no change in the overall dimensions of the dirt strip (16,000 by 1,600 feet) since [redacted] Width of the strip was increased approximately 200 feet between [redacted] A chronology of this installation was included in a memorandum dated 24 July 1963 (see M/EB 306/63).

b. Earth grading and new track activity is revealed in the possible control area located about 1,200 feet north of the midway point of the strip. (Note Annotation A, Attachment 6) A small area of new earth scarring can be
25X1 seen on [redacted], however, most of the change has taken place
25X1 between [redacted]

5. ELECTRONICS SITE C, LAUNCH COMPLEX A

a. Attachment 7 is a textual chronology through [redacted] It is keyed to the following four attachments.

b. Attachment 8 is a line drawing of Electronics Site C, showing relationship of possible radars with the control center and contiguous areas.

c. Attachment 9 is a partially rectified line drawing of the site control center and possible radar outriggers. It is a graphic chronology, similar to Attachment 3.

d. Attachment 10 is a key to Attachment 9, containing annotation numbers, object identifications and dimensions.

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e. Attachment 11 is a sketch of the photo interpreter's impression of the possible radar installation at Annotation 9e, as seen on [redacted]

6. LAUNCH COMPLEX B

a. Attachment 12 is a textual chronology through [redacted] It is keyed to the following attachments.

25X1
25X1 b. Attachment 13 is a line drawing of the launch area of Launch Complex [redacted] as it appeared on [redacted] It is used to present a graphic chronology, similar to Attachment 2, of construction progression through [redacted]

c. Attachment 14 is a key to the preceding attachment.

d. Attachment 15 is a line drawing of the launch area as seen on
25X1 photography accomplished [redacted]

e. Attachment 16 is a line drawing with metrical data prepared by NPIC Technical Intelligence Division photogrammetric engineers. It portrays the tower and possible radar dish which was erected on the large building in the
25X1 triad installation between [redacted] Possibly the same
25X1 dish could be seen on the ground next to the large building (Annotation 3) on [redacted]

7. INSTRUMENTATION SITE 10

a. Attachment 17 is a small scale line drawing of the instrumentation site and associated features, including the airstrip, a 275 foot lattice tower approximately one nautical mile to the northwest and a possible electronic facility approximately three and a half nautical miles north-northwest of the site.

b. Attachment 18 is a textual chronology through [redacted] It is keyed to the following attachment.

c. Attachment 19 is a large scale line drawing of the instrumentation site, its contiguous support area and the unidentified triad of buildings.

d. Attachment 20 is the key to the preceding attachment.

8. INSTRUMENTATION SITE 13

a. Attachment 21 is a textual chronology through [redacted] It is keyed to the following attachment.

b. Attachment 22 is a small scale line drawing of the instrumentation site. It is used as a graphic chronology, similar to Attachment 2.

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c. Attachment 23 is a large scale line drawing of the triad site, with dimensions shown.

9. THE HEN HOUSE

a. Reference is made to M/EB 306/63 memorandum dated 24 July 1963, Subject: "Sary Shagan, Selected Installation Analysis." Paragraphs d (9) (a) and (b) on page 6 report a second wall and a possible roof section on the northeast side of Section A of the triangularly shaped building. Further examination of this installation reveals that there is no roofed section or wall as previously reported. A corrected drawing is included in this report as Attachment 27.

25X1

10. The following photographic materials are also herewith attached as per the request of

11. The photo analyst on this project is and he may be contacted on should you have any further questions concerning this project.

25X1

12. This project is considered to be complete.

Enclosures:
1 - Index to Attachments
2 - Textual Chronologies
(Attachments 1, 7, 12, 18, and 21)
3 - Line Drawings
(Attachments 2, 3, 5, 6, 8, 9, 11, 13, 15, 16, 17, 19, 22, and 23-27)
4 - Annotation Keys
(Attachments 4, 10, 14, and 20)
5 - Enlargements
(CIA/PID/MEB-P-167/63 thru P-174/63)

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Attachment to: [redacted]
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INDEX TO ATTACHMENTS

Attachment No.	
1	Textual Chronology of Instrumentation Site 2
2	Graphic Chronology of Instrumentation Site 2
3	Graphic Chronology of Operations Area, Instrumentation Site 2
4	Annotation Key to Attachment 3
5	Photo Analyst's Perspective View of Building A and A-1, Instrumentation Site 2
6	Graphic Line Drawing of Prepared Earth Airstrip
7	Textual Chronology of Electronics Site C, Launch Complex A
8	Line Drawing of Electronics Site C and Associated Areas, Launch Complex A
9	Graphic Chronology of Control Center and Possible Radars, Electronics Site C, Launch Complex A
10	Key to Attachment 9
11	Photo Analyst's Impression of Photo Image of Possible Radar Installation, Electronics Site C
12	Textual Chronology of Launch Complex B
13	Graphic Chronology of Launch Complex B
14	Key to Attachment Number 13
15	Line Drawing of Launch Complex B Launch Area as Seen on [redacted]
16	Line Drawing of Tower and Dish at Launch Complex B
17	Small Scale Line Drawing of Instrumentation Site 10
18	Textual Chronology of Instrumentation Site 10
19	Graphic Chronology of Instrumentation Site 10
20	Key to Attachment Number 19
21	Textual Chronology of Instrumentation Site 13

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INDEX TO ATTACHMENTS - Cont'd

22 Graphic Chronology of Instrumentation Site 13

23 Large Scale Line Drawing of Instrumentation Site 13, Building Triad Area

24 Line Drawing of Intersection of Azimuths from Instrumentation Sites 2, 10, 13, and Launch Complex B

25 Line Drawing of Graphic Correlation Between Possible Radar Dish and Camera Satellite (Launch Complex B - 25 Aug 63)

26 Line Drawing of Correlation Between Possible Radar and Satellite (Instrumentation Site 2 - 2 Apr 63)

27 Line Drawing of Corrected View of HEN HOUSE Area

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Attachment (1) to: [redacted]
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Copy 1

TEXTUAL CHRONOLOGY
of
CONSTRUCTION ACTIVITY AT INSTRUMENTATION SITE 2, SARY SHAGAN, USSR

25X1 (All dimensions are approximate)

1. [redacted]

a. Operations Area (see Attachment 3)

(1) Missing: Buildings A, A-1, B, C, D, D-1, J, the 30-foot diameter tanks annotated K, and the adjacent disturbed earth.

(2) Under Construction:

(a) The western wing of Building E.

(b) A probable semi-buried tank, approximately 50 feet in diameter.
25X1 See Annotation 4, page 60, report [redacted]

(c) An uncovered ditch connects Buildings G, H, E, F, and L.

(d) Semi-buried Structure G appears complete, however, work on the roof and on surrounding areas is evident. The spoil around Building G has been spread out, forming a flat but irregular pattern in plan view. Two unident-
25X1 ified objects about [redacted] are in place within this irregular area of spoil. Each object is surrounded by a small circular area, smoother than the surrounding spoil. The objects are 120 and 80 feet east of Building G and are spaced 170 feet apart. These unidentified objects, and another unidentified object located about 100 feet north of Building G, are visible on latest photography. The area of spoil remains undisturbed and track activity does not cross it, though it does not appear protected by a fence.

b. Support Area (see Attachment 2)

(1) Missing: One single story 50 by 150 foot building and the small fenced area southwest of the support area, now containing two 30 by 80 foot single story buildings and one probably 30 by 40 foot single story building.

(2) Under Construction: The largest building in the support area, a "T" shaped single story structure, 40 by 130 by 180 feet.

c. Other Areas

The SAM site and the ditches, cables and earth scars indicated on Attachment 2 are missing.

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25X1

2. [redacted]

25X1

No activity detected. Photo quality is very poor.

3. [redacted]

a. Operations Area

(1) Missing: Buildings A, A-1, J, and tanks "K".

(2) Under Construction:

(a) Buildings B and C appear to have foundations or footings in place.

(b) Probable footings are in place for building D, and possibly building D-1.

b. Support Area

(1) Missing: One single story 50 by 150 foot building.

(2) No construction activity is visible.

c. Other Areas

25X1

Missing and under construction as indicated in attachment number two.

4. [redacted]

a. Operations Area

(1) Building A-1 is still missing.

(2) Under construction: A, C, J, D, K, and possibly B. Possible footings of building D-1 are in place.

25X1

b. Support and Other Areas as indicated in attachment number two.

5. [redacted]

a. Operations Area

(1) Missing: Building A-1

(2) Under Construction:

(a) Building A has the east wall and about half of the west wall visible. The probable foundation for a roof mounted radar device is being erected between the walls, in the south half of the building.

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(b) Footings for building A-1 are probably in place.

(c) Building C is erected except for work in progress on the roof. The roof mounted equipment or structure seen on later photography is not in place, though a circular light toned area is visible.

(d) A dark line can be seen extending along the roof of building D, from the dark unidentified structure, toward building E.

(e) The footings for building D-1 appear in place.

(f) The footings or foundation for building J are in place.

(g) Excavations for the two tanks at K can be seen amongst freshly spread earth spoil.

b. Support and Other Areas

25X1

As indicated in attachment number two.

6. [redacted]

a. Operations Area

(1) Under Construction: Building J, D-1, A, A-1, and possibly C and D. The tanks (K) are in position, as shown in attachment three.

b. Support and Other Areas

25X1

As indicated in attachment number two.

7. [redacted]

a. Operations Area

(1) Under Construction:

(a) Buildings A, A-1 and possibly D-1, D and C.

(b) Minor activity is evident within the enclosed operations area, SW of structure F. A cleared space approximately 70 feet in diameter is connected to F by a path.

(c) A ditch or pipe line now leads from the vicinity of the SAM storage area to the rear of building A.

b. Support and Other Areas:

(1) The buried cable which parallels the main access road has now been extended to the vicinity of the support area.

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(2) A cleared area is evident about 8,000 feet north-northwest of Building D. It is later the terminous of a cable scar from Building D. The earth scar for this cable is still not evident on this mission. 25X1

8. [redacted]

a. Operations Area

(1) The area is covered with snow and the photography somewhat degraded by haze, however, a few changes are evident:

(a) A new cable trench, as shown in Attachment 3, approaches the area just north of Building G. 25X1

(b) A prominant cable scar is visible in the snow, on an azimuth of [redacted] degrees from Building B to a point 2,600 feet away.

(c) Building A is possibly still under construction.

b. Support and Other Areas

A new probable single story building, 40 by 100 feet, has been added to the support area. 25X1

9. [redacted]

a. Operations Area

(1) All structures are as shown on the basic line drawings, Attachments 2 and 3.

(2) The unidentified object on the roof of Building D is centered in the center of a dark ring having a 75 foot diameter. There appears to be a connection between Buildings D and E.

(3) Close examination of this excellent mission reveals for the first time the presence of a probable radar with a circular dish having a diameter of approximately 45 feet, mounted on a probable pedistal on the rear half of Building A. Photogrammetric analysis by NPIC Technical Intelligence Division confirms that the dish is circular.

(a) The roof of Building A has two different tones, with the section to the rear being lighter than the forward half. Two probable access areas, one in each half section of the roof, were also detected on this mission. Note Attachment 5.

(4) A new ditch or pipeline connecting the support area with the general area occupied by Buildings A, B, and C is seen for the first time on this mission.

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(5) A cable scar can be seen extending from in front of Building D-1 on an azimuth of 340 degrees to an unidentified object in a cleared area 8,000 feet away.

25X1 b. Support and Other Area as indicated in Attachments 2 through 4.

10. [redacted]

a. Operations Area

No changes are noted.

b. Support and Other Areas

25X1 A probable trench is being dug, as indicated in Attachment 2. Probable construction activity at the newest building in the support area is again evident.

11. [redacted]

a. Operations Area

A probable solid tower, 80 feet high and 30 feet wide, is visible adjacent to Building D-1, as illustrated in Attachment 3. A probable trench, new track activity and two unidentified objects can be seen in the same area. If a line from the intersection of the two wings of Building E were drawn through the tower, it would be on an approximate azimuth of 340 degrees.

b. Support and Other Areas

25X1 (1) The trench leading along the main access road toward the support
25X1 area has been extended, taking an "L" turn and then leading toward the building which was added to the support area sometime after [redacted] and prior to [redacted] The later building has shown signs of construction activity
25X1 on [redacted] and probably on [redacted] A new single story wing, 30 by 60 feet, has been added to the south side of the building.

25X1 (2) A possible trench has been dug between two rows of buildings in the support area.

12. [redacted]

a. Operations Area

(1) Two unidentified silvery white objects (seen for the first time) are located adjacent to the 80 foot tower near Building D-1. The smaller of the two objects is circular and has a diameter of approximately 50 feet. The larger object is possibly circular but is partially obscured or tilted to give the

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impression of an ellipse with an X-Y axis differential. Its long axis measures approximately 70 feet. These objects are not spheres as they throw a short shadow for their size, indicating they are possibly dish shaped and resting on a support perhaps five to ten feet off the ground. The objects appear to straddle a path.

(2) A probable trench can be seen extending westward from the rear edge of Building D-1, adjacent and to the rear of the circular shaped silvery object.

(3) An unidentified object 50 feet long and 10 feet high is sited near the edge of the shadow cast by Building D. As an unknown portion of the object is within the shadow of Building D, it is not possible to tell whether it is joined to "D" or not.

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Under Construction

Missing

LEGEND

Buried Cable

Ditch or Pipeline

Earth Scar - Prob. Cable

Disturbed Earth

Unidentified Objects

1000 0 1000 2000

FEET (APPROXIMATE)

AZ 340°

AZ

25X1

SARY SHAGAN, USSR

25X1

INSTRUMENTATION SITE 2

See Attach 3

LATTICE MAST

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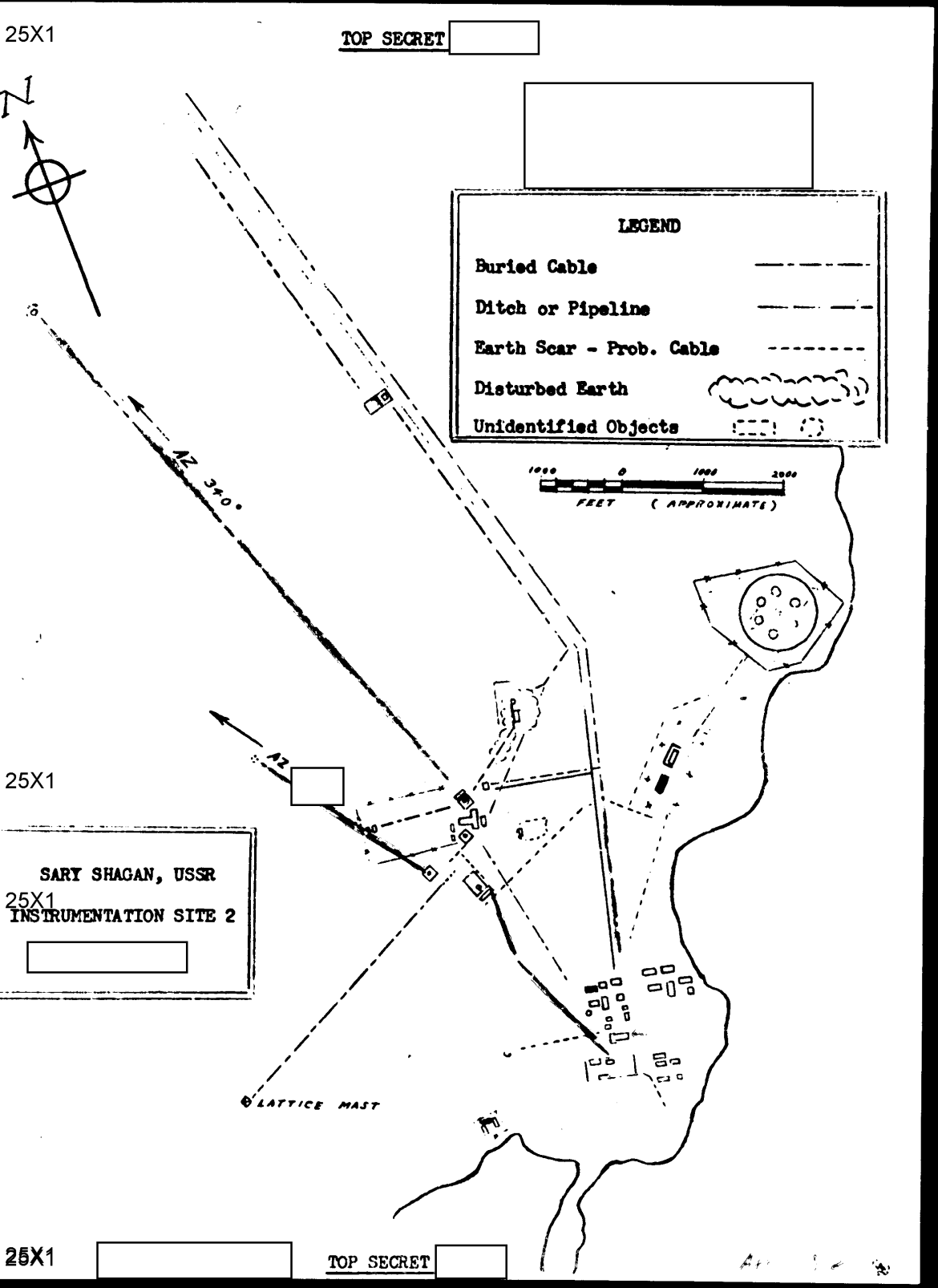

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SARY SHAGAN, USSR

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INSTRUMENTATION SITE 2

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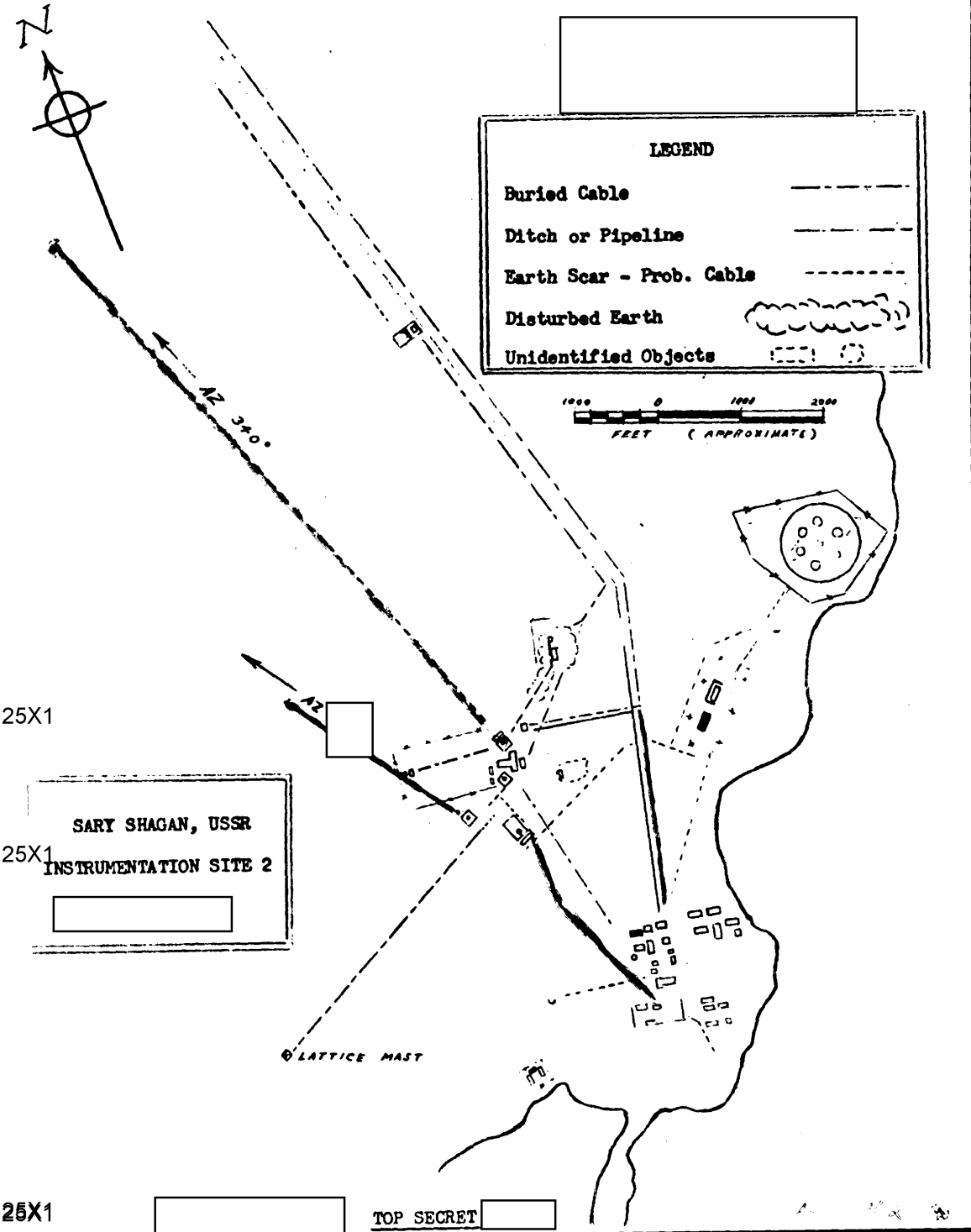

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SARY SHAGAN, USSR

INSTRUMENTATION SITE 2

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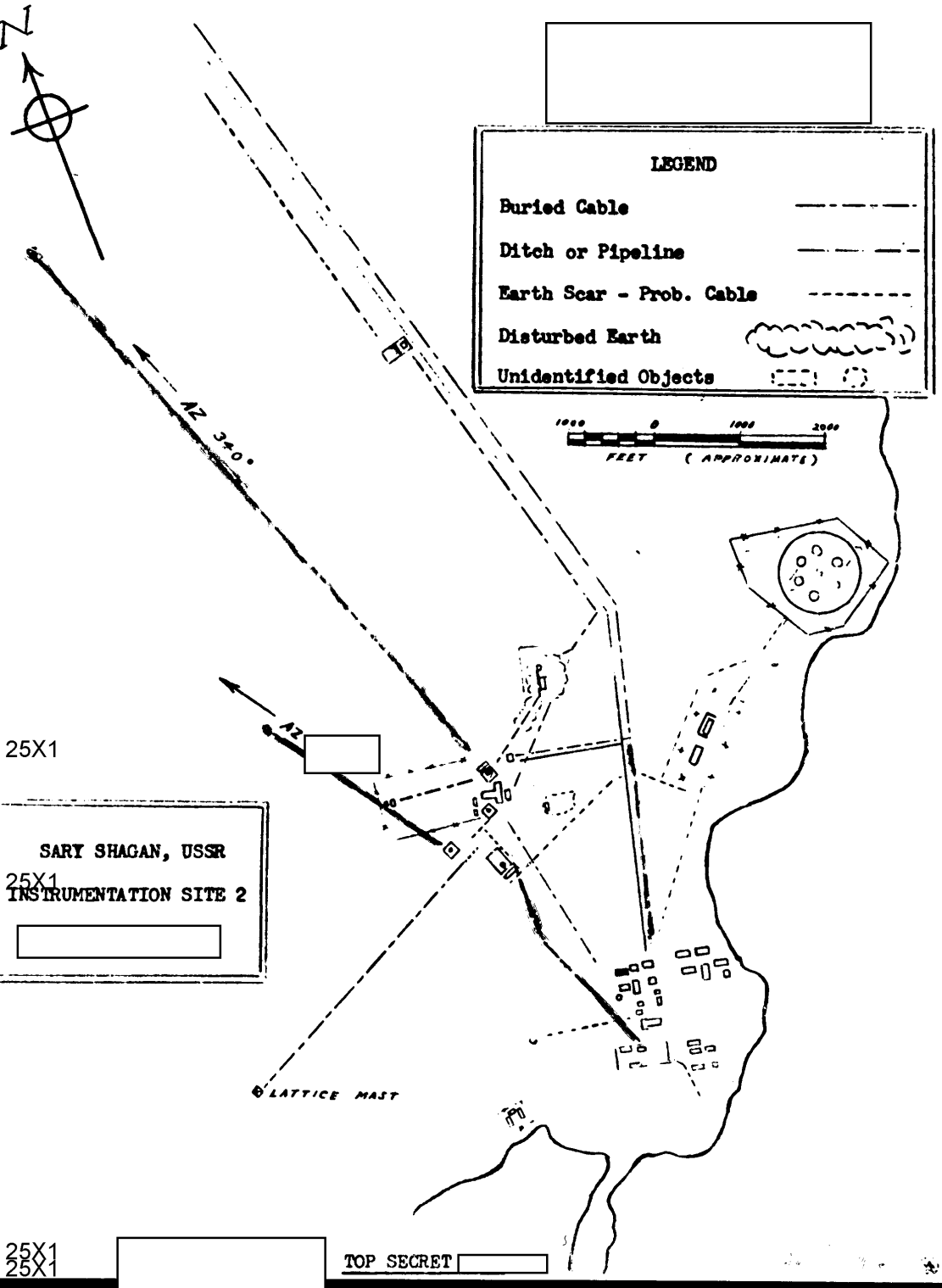

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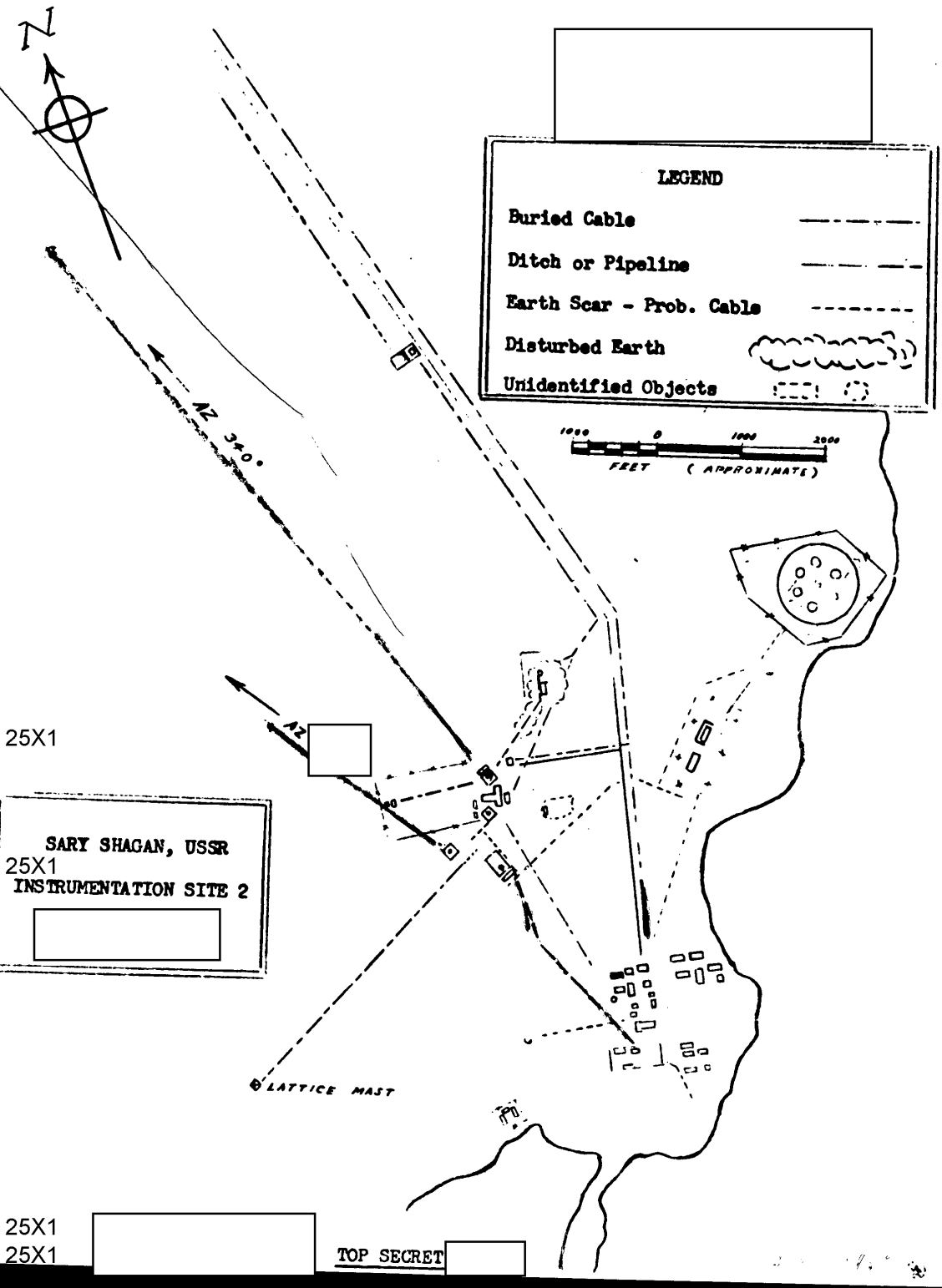

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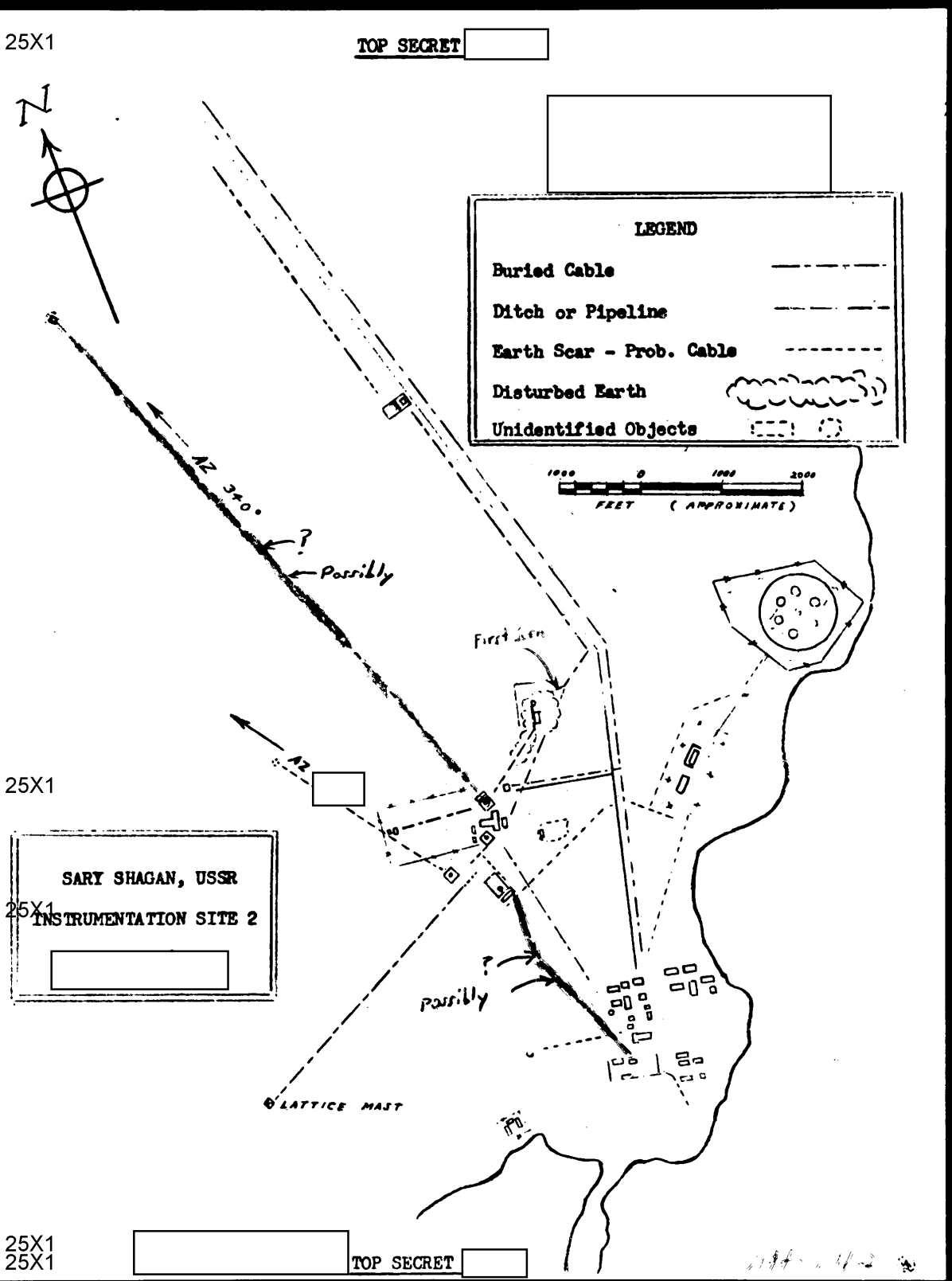

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SARY SHAGAN, USSR

25X1 INSTRUMENTATION SITE 2

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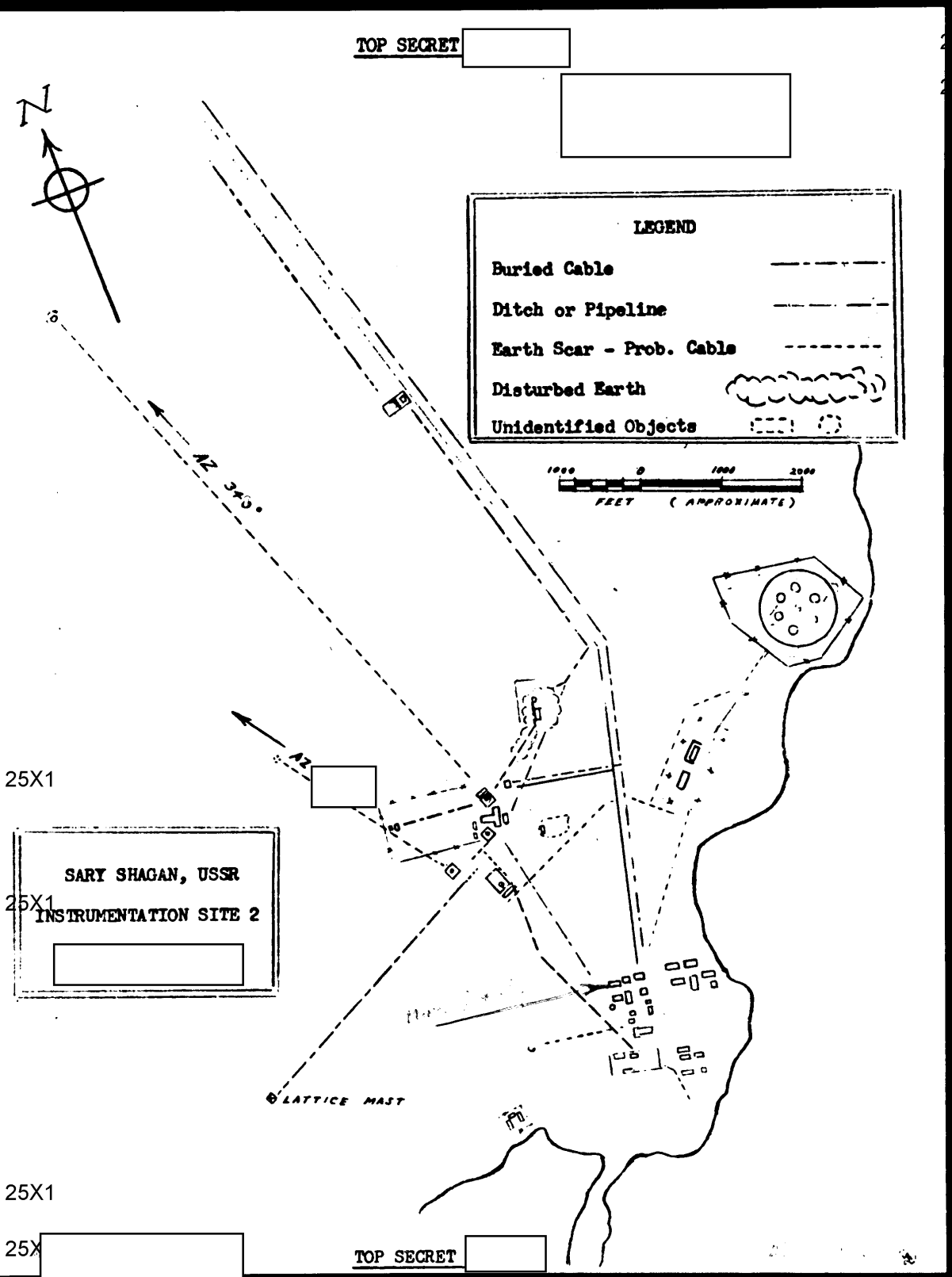

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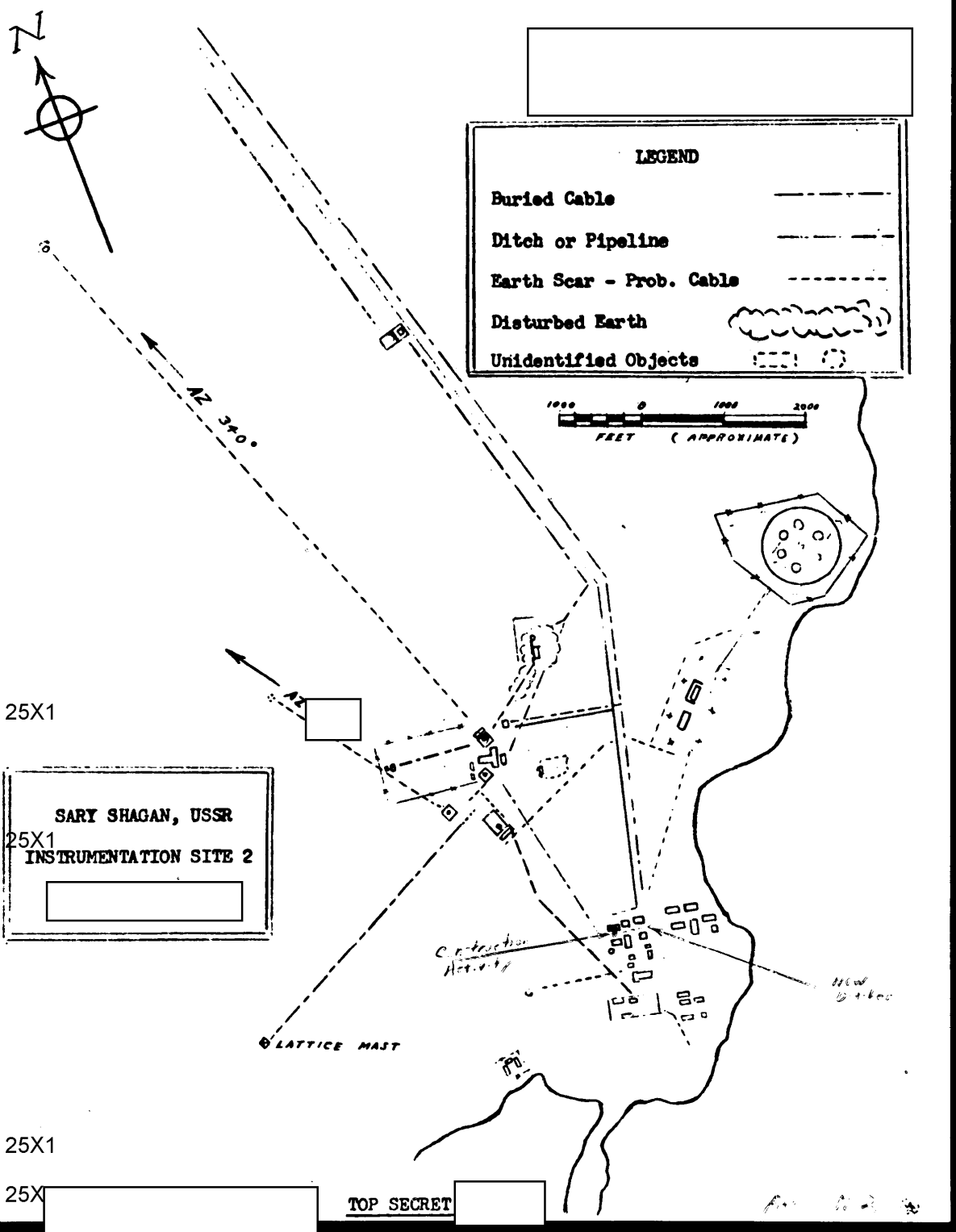

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SARY SHAGAN, USSR

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INSTRUMENTATION SITE 2

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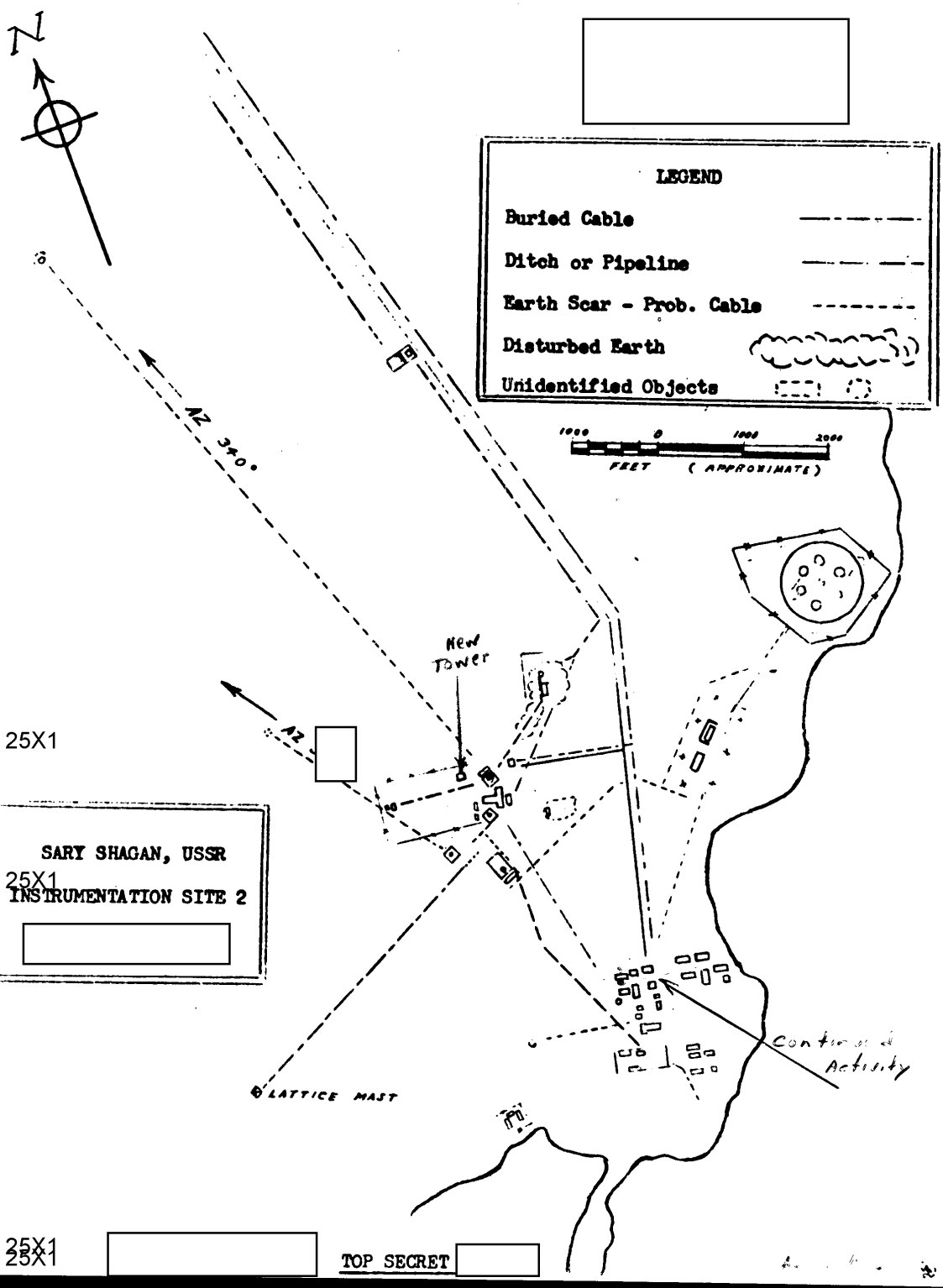

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SARY SHAGAN, USSR

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INSTRUMENTATION SITE 2

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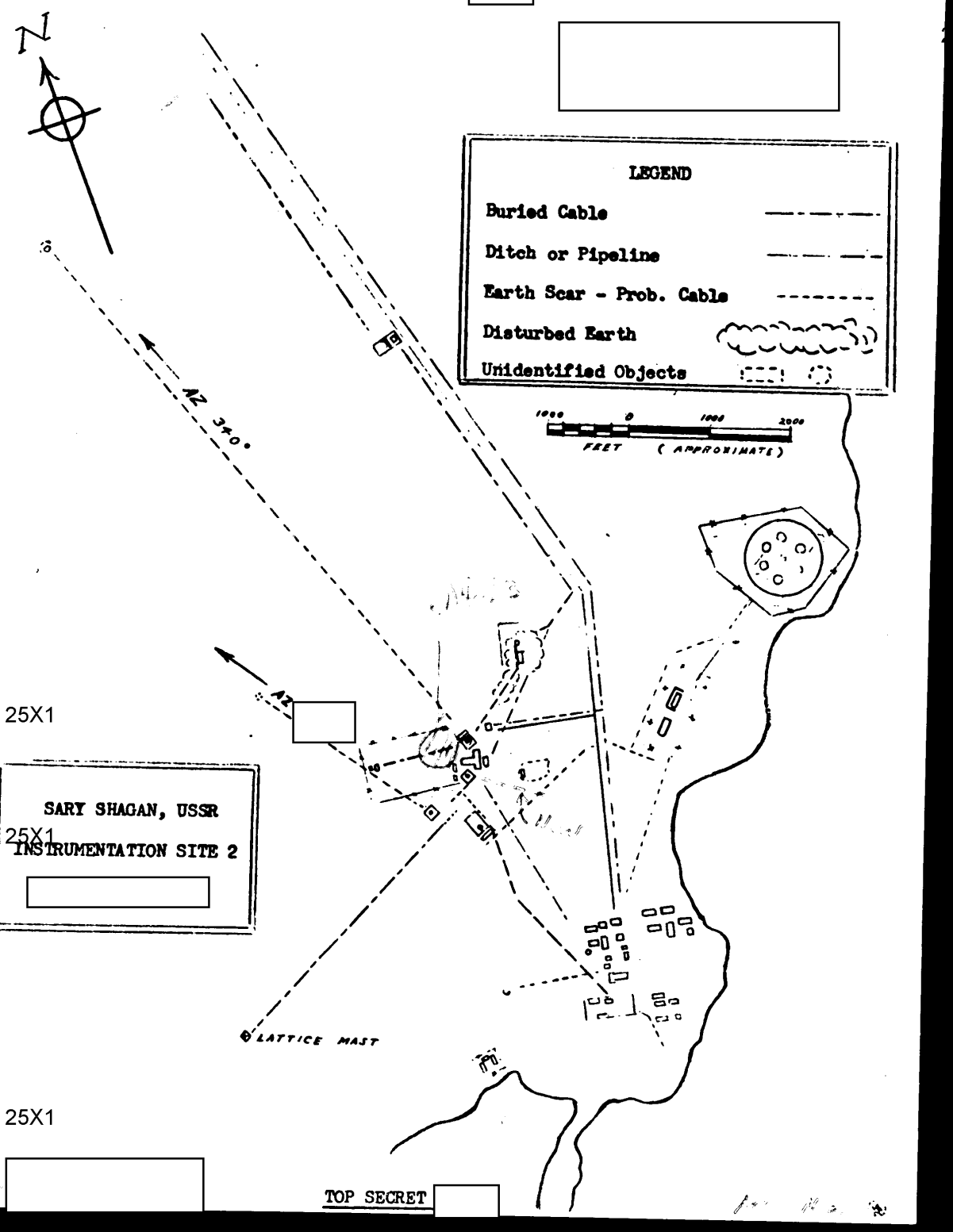

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SARY SHAGAN, USSR

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INSTRUMENTATION SITE 2

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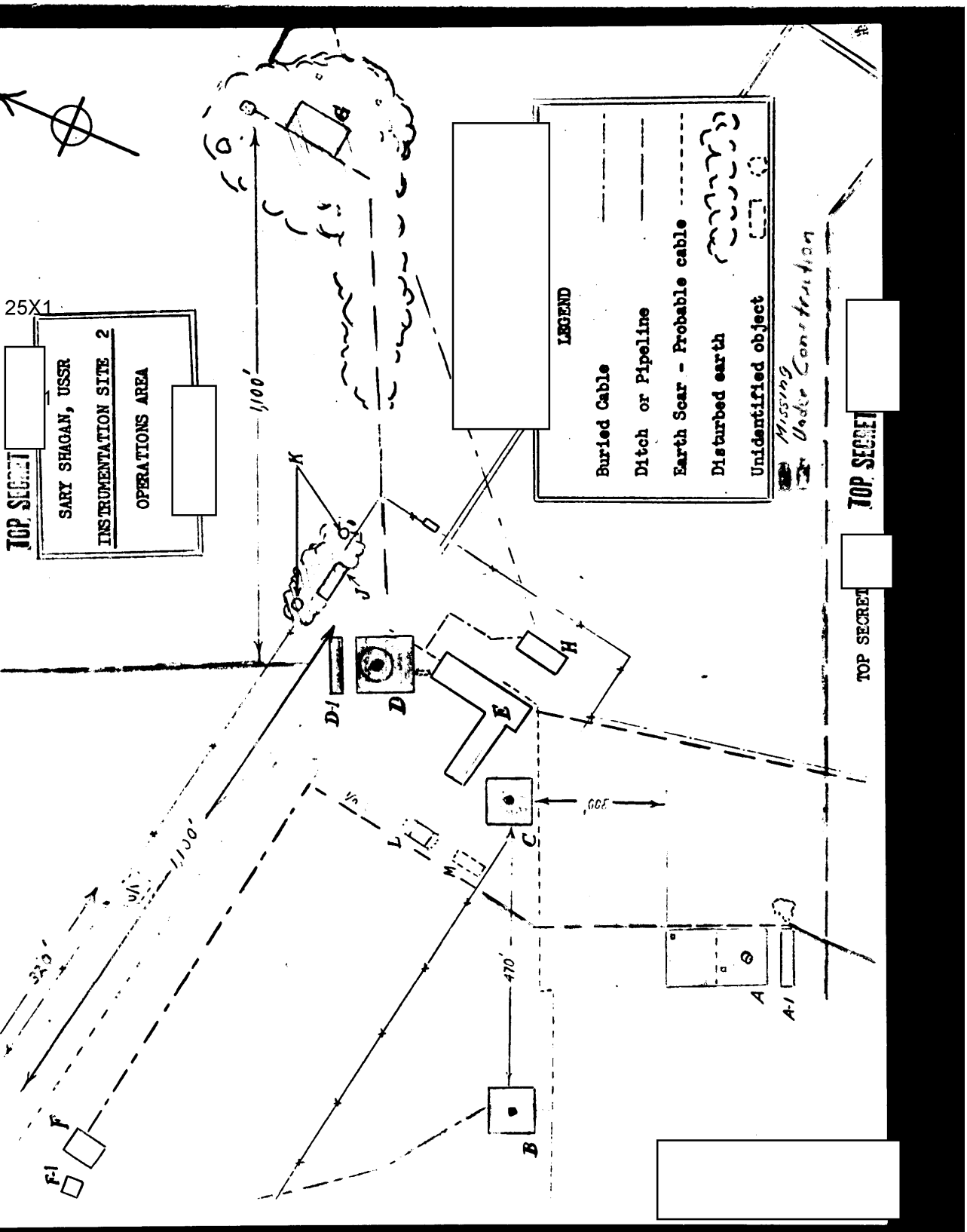

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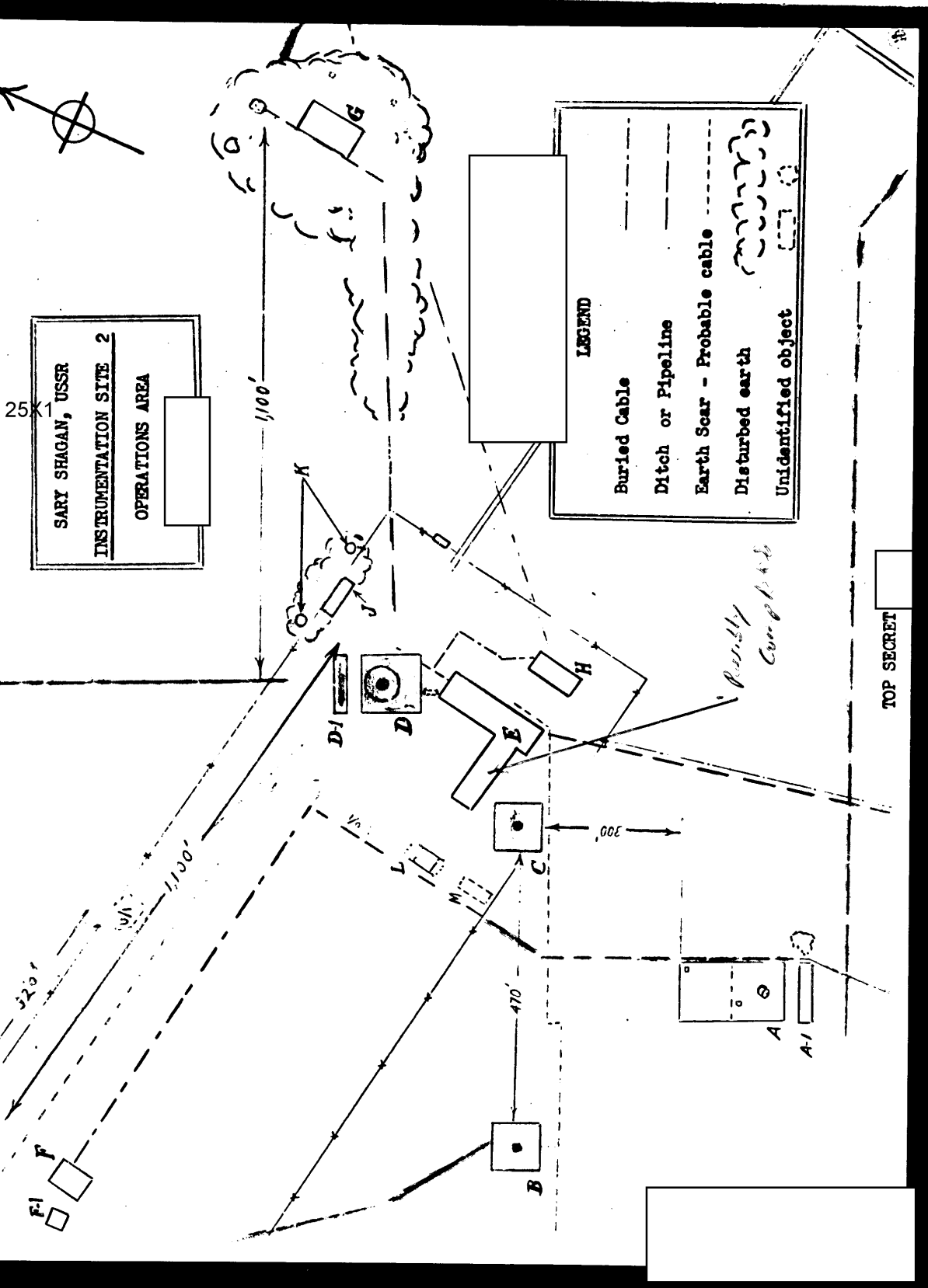

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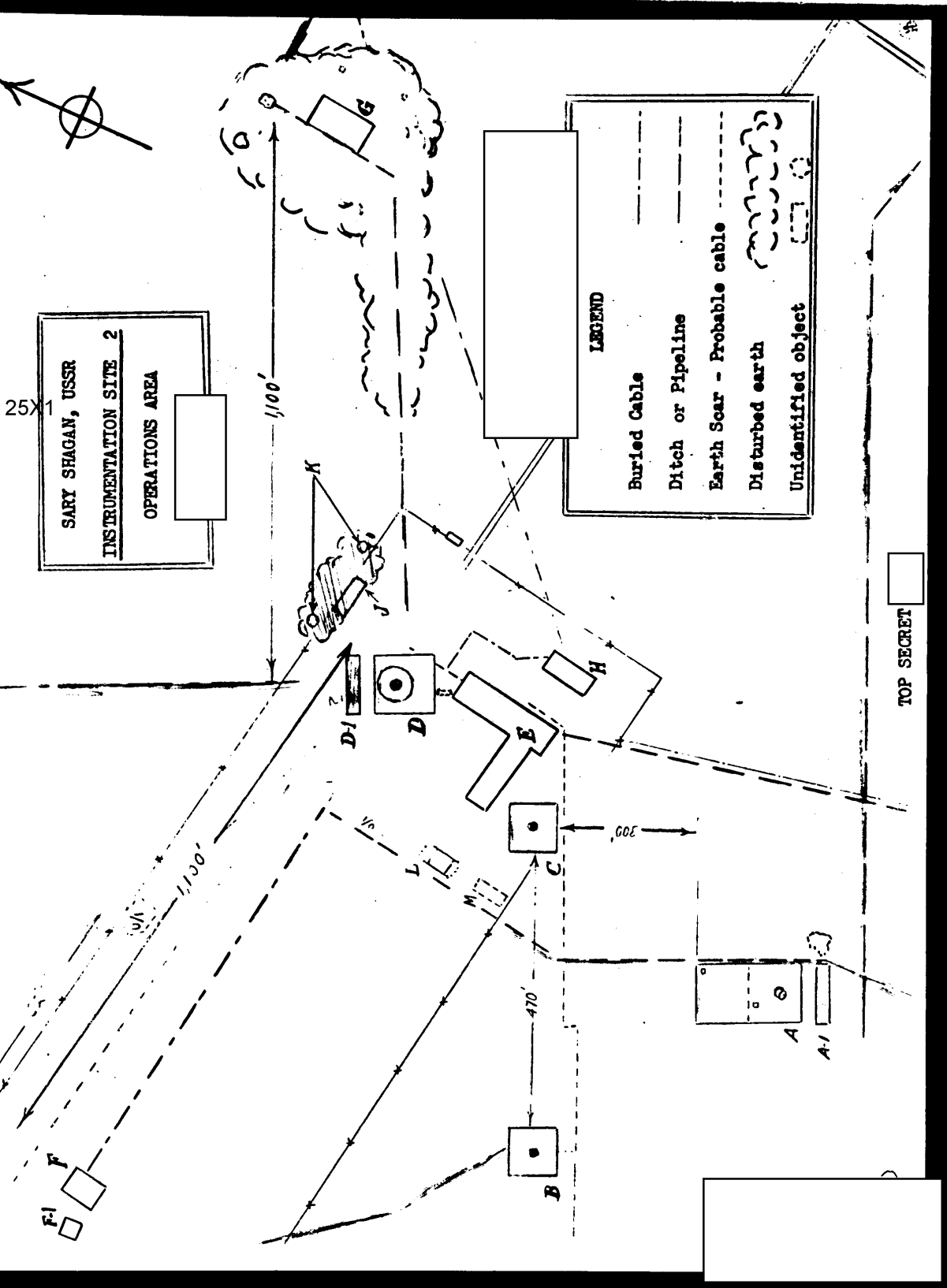

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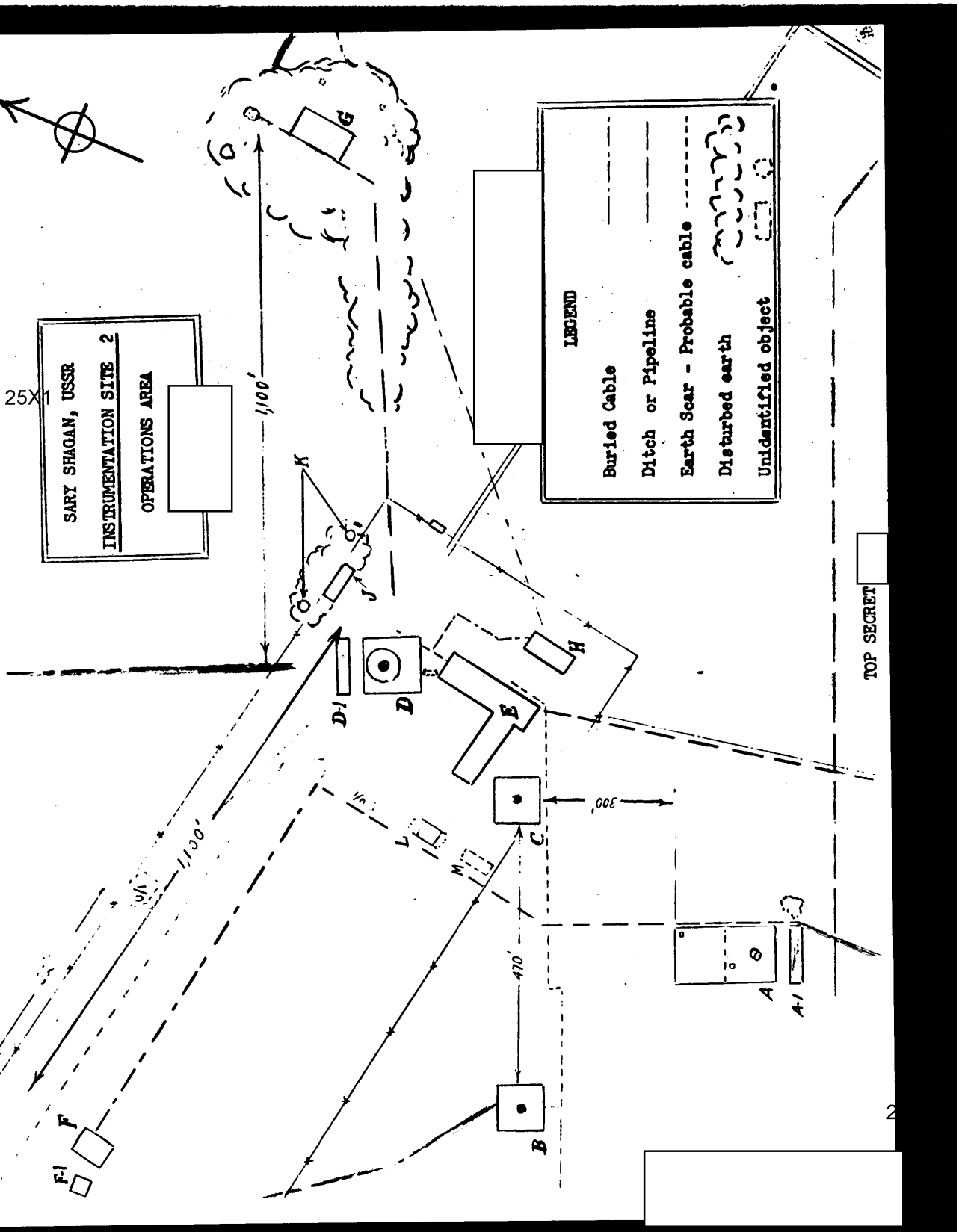

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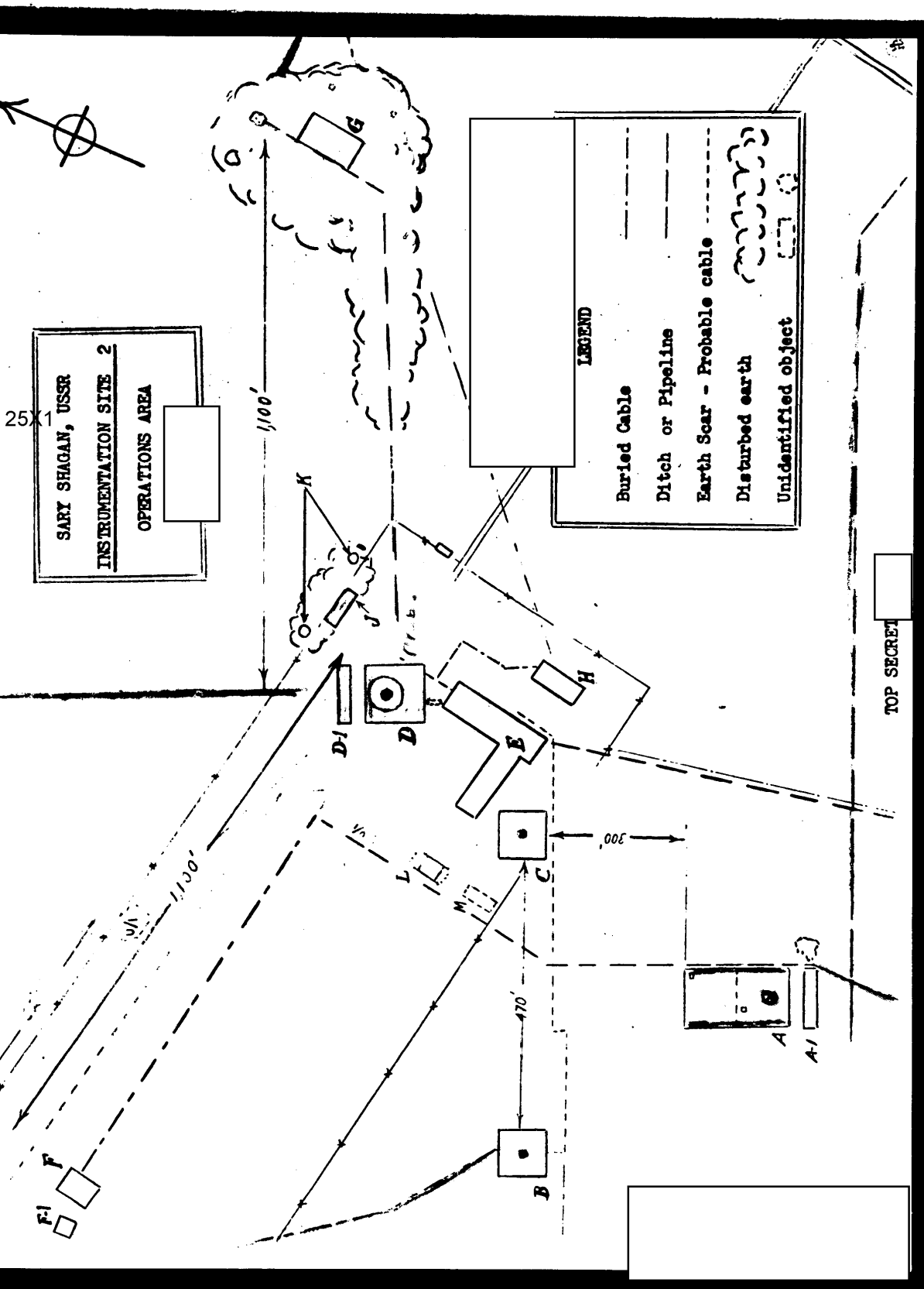

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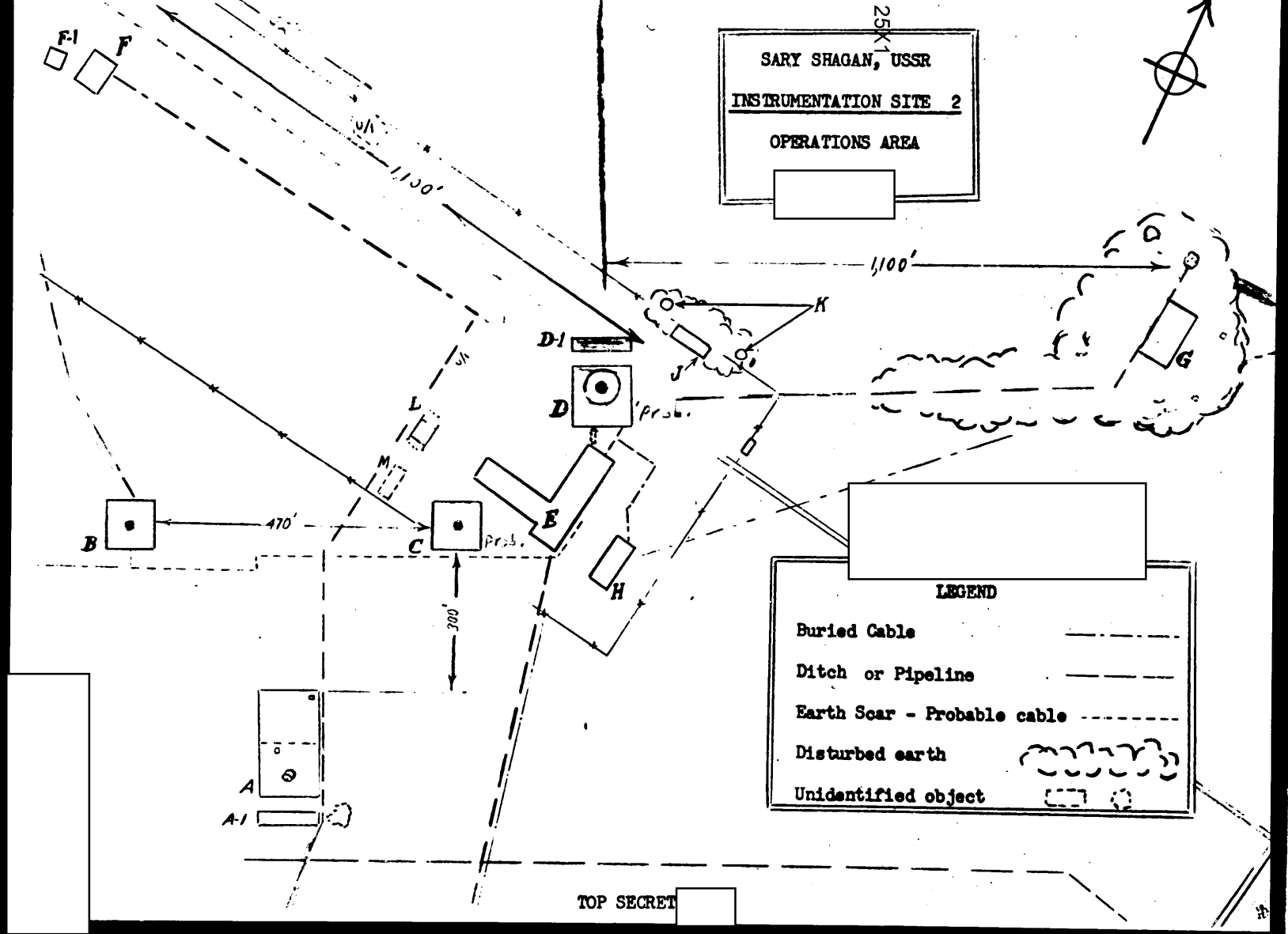

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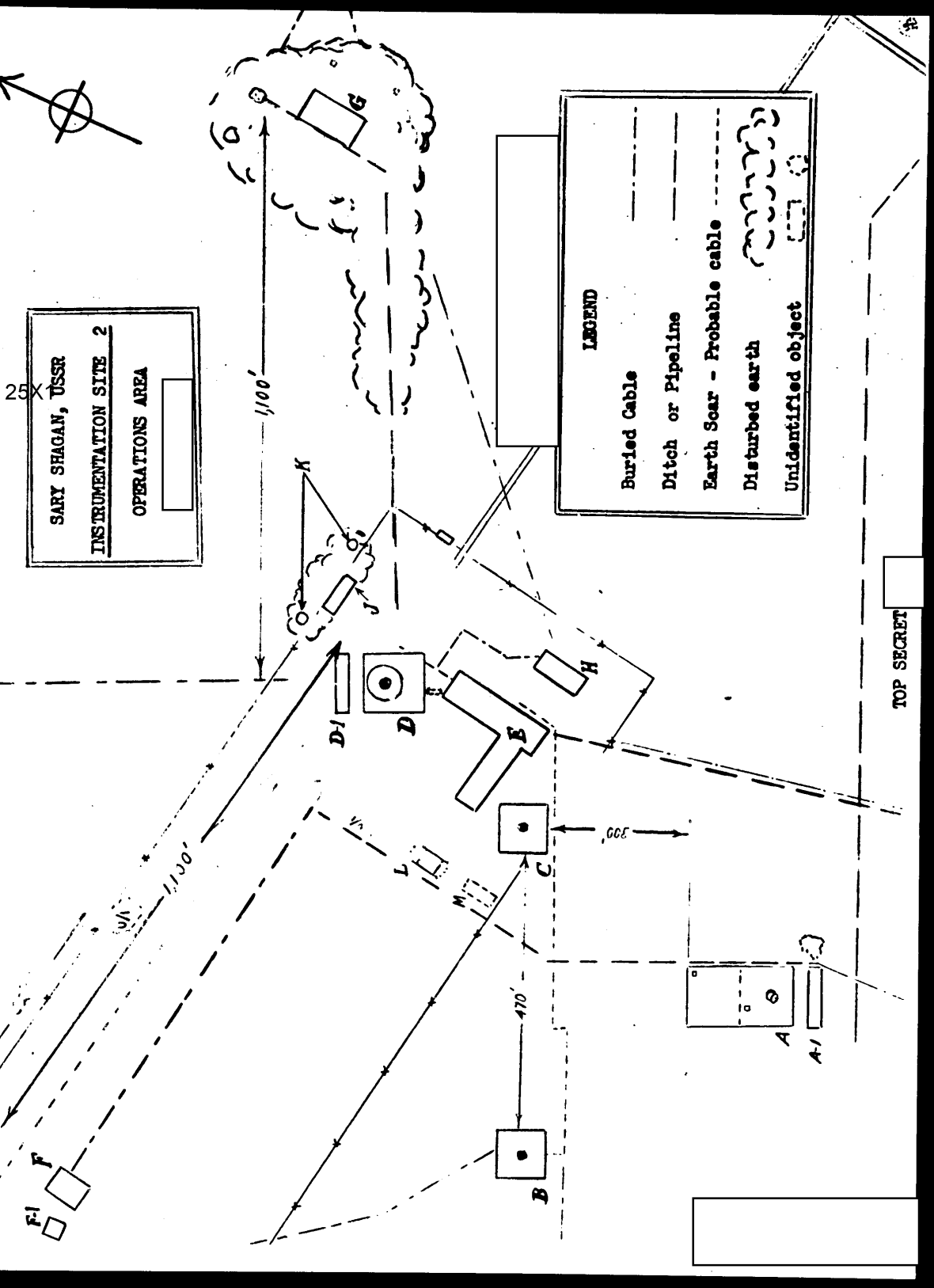

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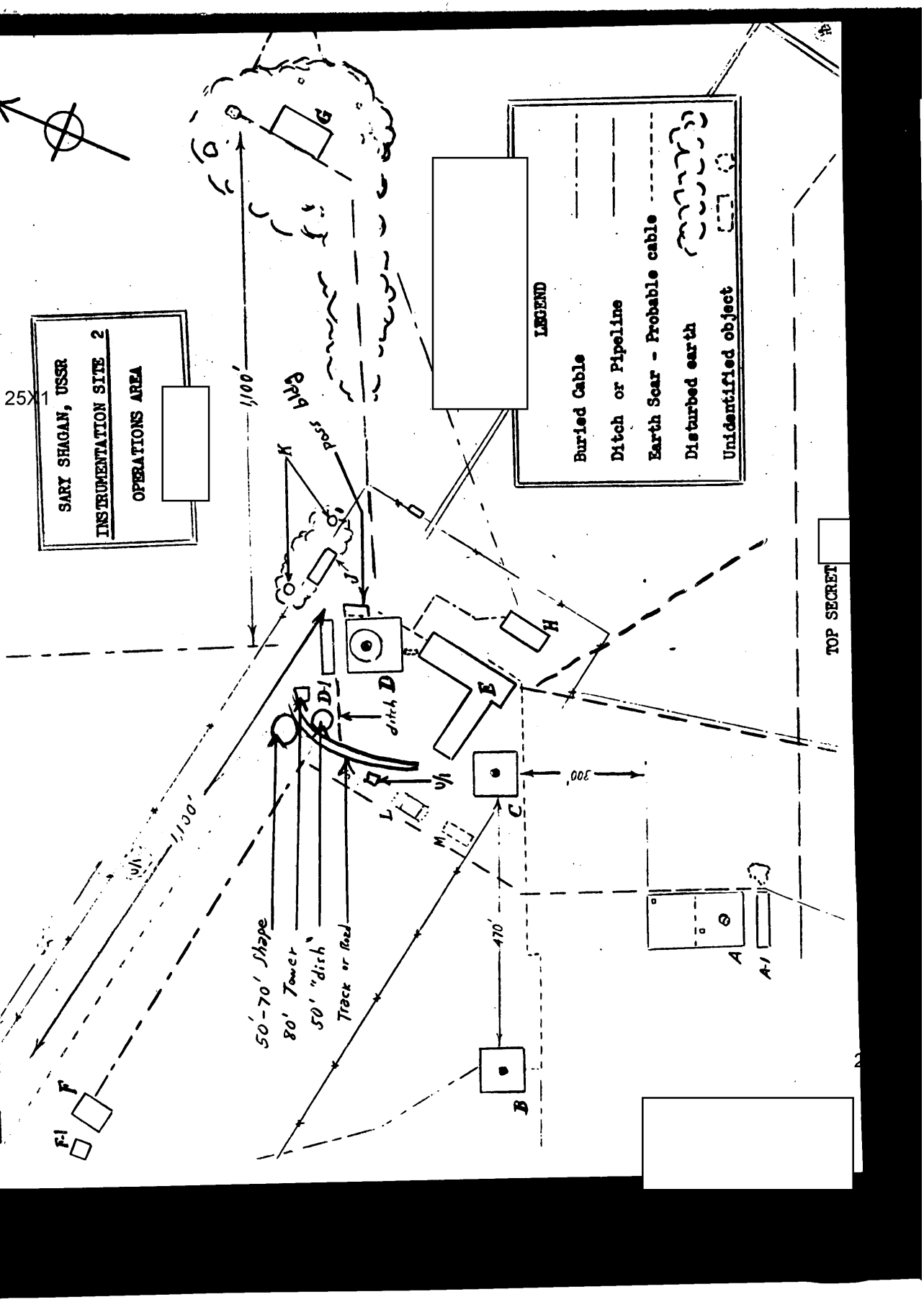

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Attachment (4) to: [redacted]
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INSTRUMENTATION SITE 2 OPERATIONS AREA, SARY SHAGAN, USSR

KEY

Annotation	Item	Approximate Dimensions (ft)	
		Plan	Height
A	Large building of the unidentified triad of structures similar to those found at instrumentation sites 10 and 13, and Launch Complex B	125 x 225	30
A-1	Building adjoining A	30 x 125	10
B & C	Two similar buildings	90 x 90	30
D	Building	125 x 135	30
E	"L" shaped building	75 x 230 50 x 140	15
F	Unidentified flat pad or semi-buried structure	50 x 90	0
F-1	Unidentified flat pad or semi-buried structure	35 x 35	0
G	Semi-buried structure	70 x 120	0
H	Building	40 x 100	15
J	Building	30 x 70	10
K	Two semi-buried tanks	30 (diameter)	
L	A 35 by 35 foot solid structure, extended in length by the addition of two contiguous, possibly mounded sections, a 25 by 35 foot addition to the north side and a 10 by 35 foot addition to the south side (same since [redacted]	35 x 70	10
M	Probable building	30 x 60	5

25X1

(See last page of attachments two and three for new developments found on [redacted]

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Attach. No. 5

BUILDING A AND A-1 AS SEEN ON FRAME 80 FWD,

INSTRUMENTATION SITE 2

SARY SHAGAN, USSR

TOP SECRET

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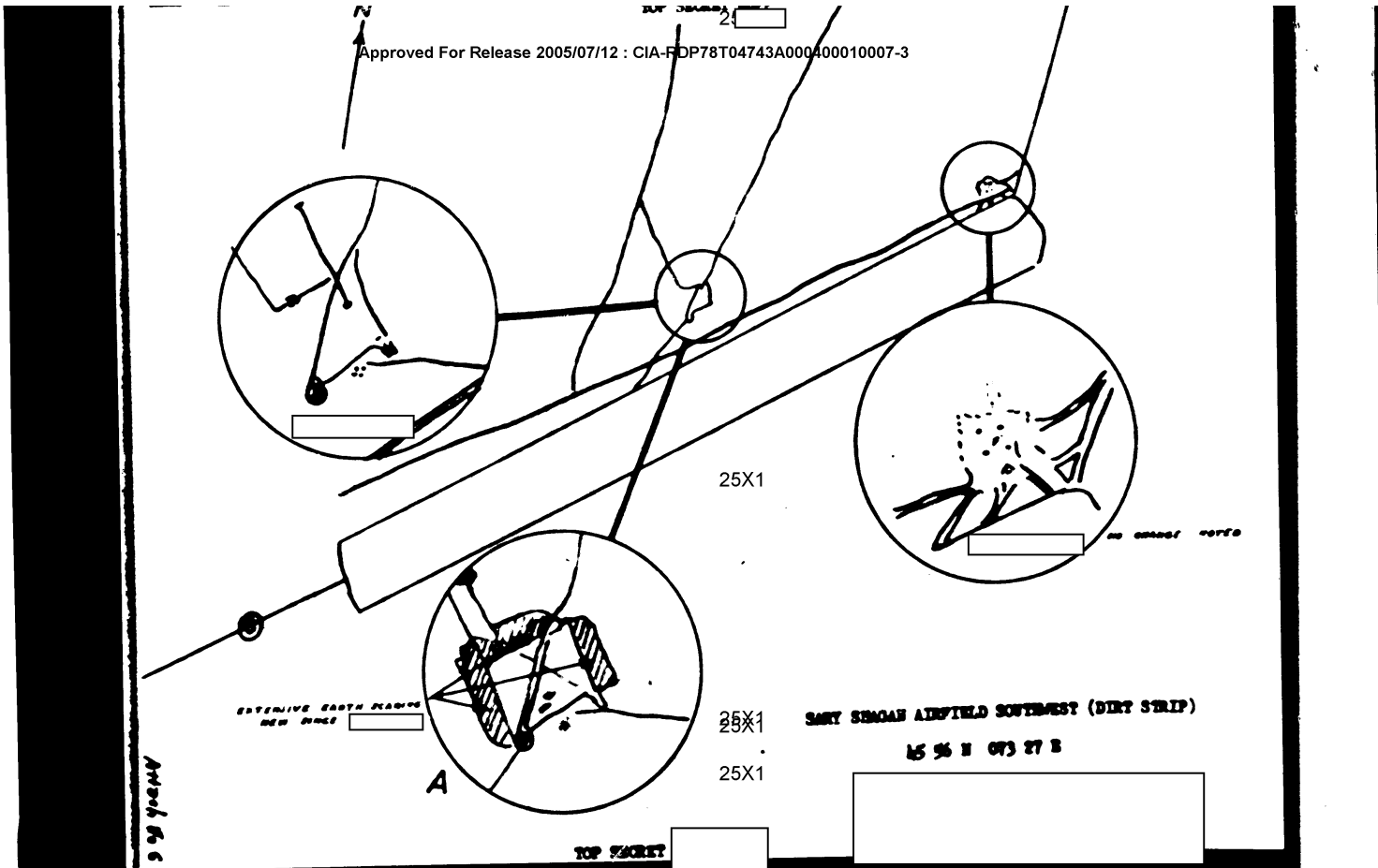

25X1

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25X1

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Attachment (7) to:
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TEXTUAL CHRONOLOGY
of
CONSTRUCTION ACTIVITY AT ELECTRONICS SITE C, LAUNCH COMPLEX A
SARY SHAGAN ANTIMISSILE TEST CENTER, USSR
(Keyed to Graphic Chronology - Attachment 9)

25X1

1. [redacted]

a. Possible Radar Facility (Annotations 1 and 9)

(1) The tower-like possible radar installation is visible at the outrigger annotated 1.

(2) There is no sign of a similar tower-like structure at outrigger annotated 9. Considerable activity is evident in the area, however.

b. Control Area

(1) Two wings (3b and 3c) of the main control building are in place. Four or five small buildings (possibly Annotations 4 through 8) can also be seen in the area.

(2) The spherical radome (Annotation 2) is probably in place.

c. Other Areas

The electronics site with the 350 foot self-supporting lattice tower, located approximately 8,000 feet southeast of the control center, is in place. It does not appear different from its current configuration and is similar in height to the tower at Instrumentation Site 2. It too, has one and possibly two
25X1 luminant structural members or reflectors at approximately the same elevation intervals as the tower at Instrumentation Site 2.

2. [redacted]

a. Possible Radar Facility (Annotations 1 and 9)

(1) No change noted at outrigger annotated 1.

(2) A structure has possibly been erected at Annotation 9 with construction activity still visible in the area.

25X1

b. No change in other areas.

3. [redacted]

No apparent change from previous mission.

[redacted]

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25X1

4. [redacted]

25X1 The following can be identified: Annotations 1a, 1b, 1e, 9a, 9b, and 9e plus other facilities shown on Attachment 8. No changes are noted.

5. [redacted]

a. The following can be identified: Annotations 1a, 1b, 1c, 1e, 9a, 9b, 9c, and 9e.

25X1 b. The west wing (Annotation 3a) of the main control building is under construction. No other changes noted.

6. [redacted]

a. Construction possibly still progressing on wing annotated 3a.

25X1

b. No other changes noted.

7. [redacted]

a. This mission was used to construct the drawings included in this report as Attachments 8 through 10. No changes were noted, however, the excellent quality of this mission provided the best view of the tower-like structures located on outriggers. Probably circular or nearly circular shadows were noted, suggesting a possible radar installation. The following is a description of the outriggers and their tower-like, possible radar:

(1) The installation at outrigger annotated 1 appears to be a mirror image of the outrigger at Annotation 9. It consists of a fenced area containing a rectangular concrete pad (Annotation 1a and 9a), an unidentified, dark toned structure annotated 1b and 9b and a slender concrete structure annotated 1c and 9c. A circular pad or possible pedistal appears off-center on each concrete pad, and is partially hidden by the massive "tower-like" possible radars (Annotations 1e and 9e). The shape of the mass at Annotations 1e and 9e suggests the presence of a large dish and a counter-weight. The shadows further support this possibility.

(2) Small structures, vehicles or equipment can be detected on the pad at Annotation 9f.

(3) A possible boom-like structure is seen projecting from the dark mass of the possible radar at Annotation 9e.

25X1 8. [redacted]

a. Despite poor quality on the forward camera, this mission produced good quality photography of this installation. The following changes were noted:

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(1) The circular objects annotated 1d and 9d could not be detected on this mission, however, the quality probably precludes such detection.

(2) The mass consisting of Annotations 1d and 1e (also 9d and 9e) is centered in the concrete area, whereas it appeared to be off-set on [redacted] (as shown on Attachment 9).

(3) The northwest end of Pad 9a has two corners obscured by unidentified material or objects.

25X1

b. A particularly interesting view of the mass at Annotation 9e was secured 25X1 on [redacted] of the aft camera [redacted]. The photo interpreter's impression is contained in a sketch on Attachment 11. The NPIC Technical Intelligence Division is unable to make a three-dimensional plot of the probable dish shaped object due to the photo quality, however, they agree that the shadow is probably being cast by a large, possibly dish shaped object mounted on a pedistal.

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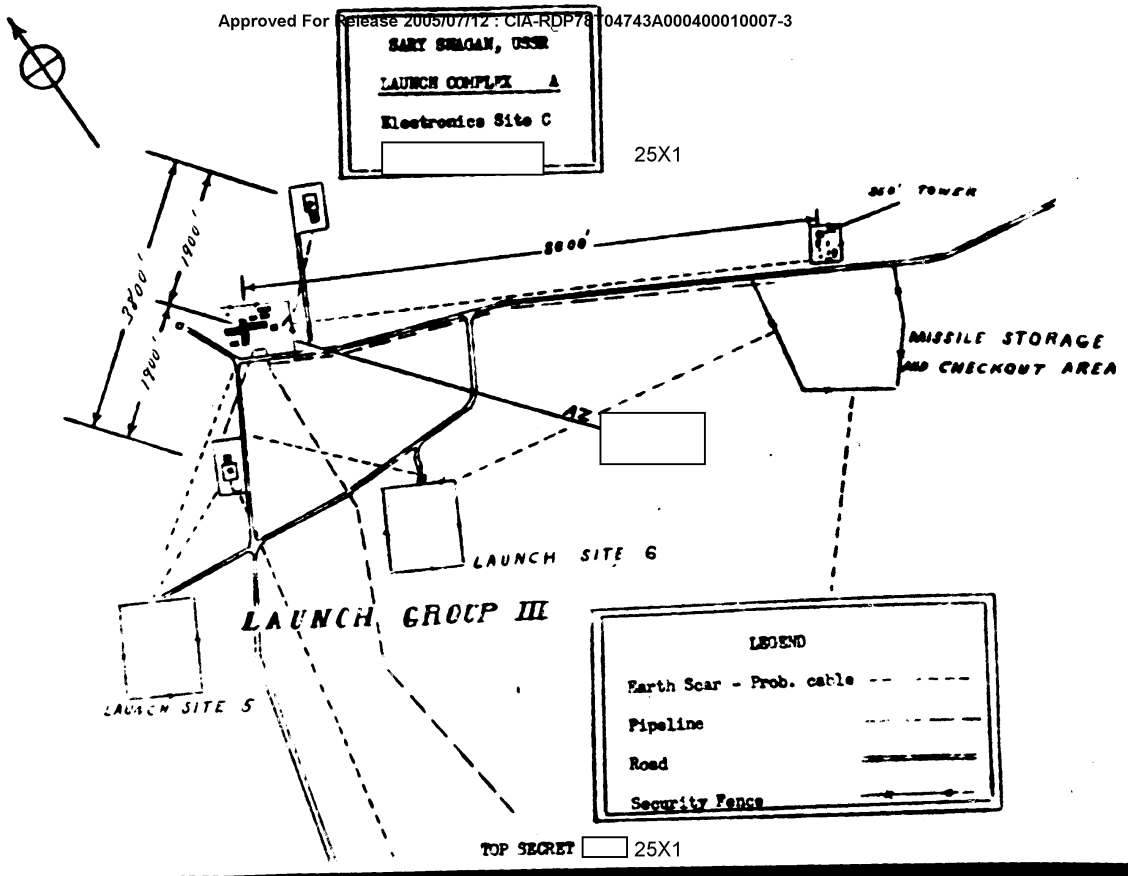

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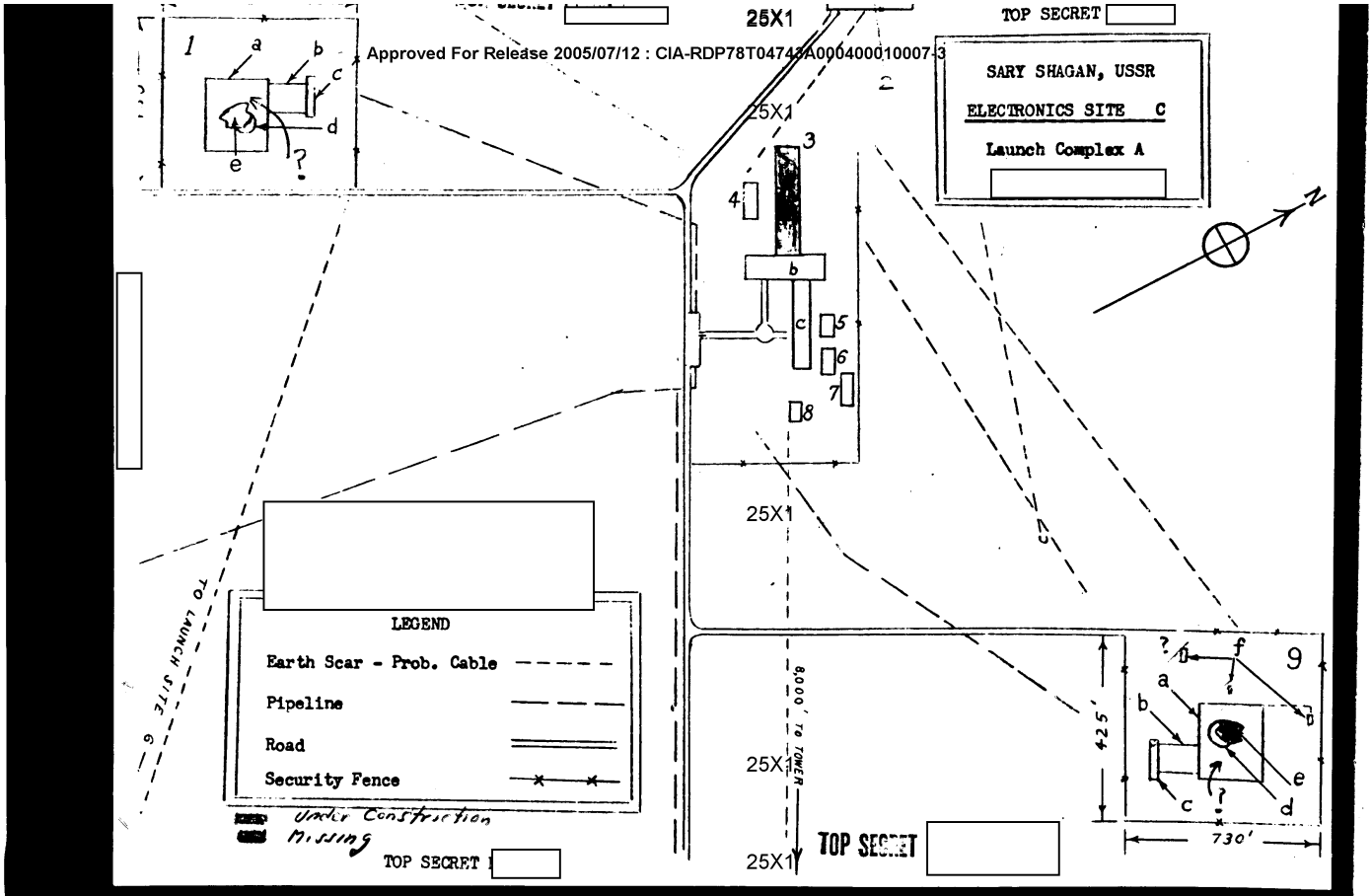

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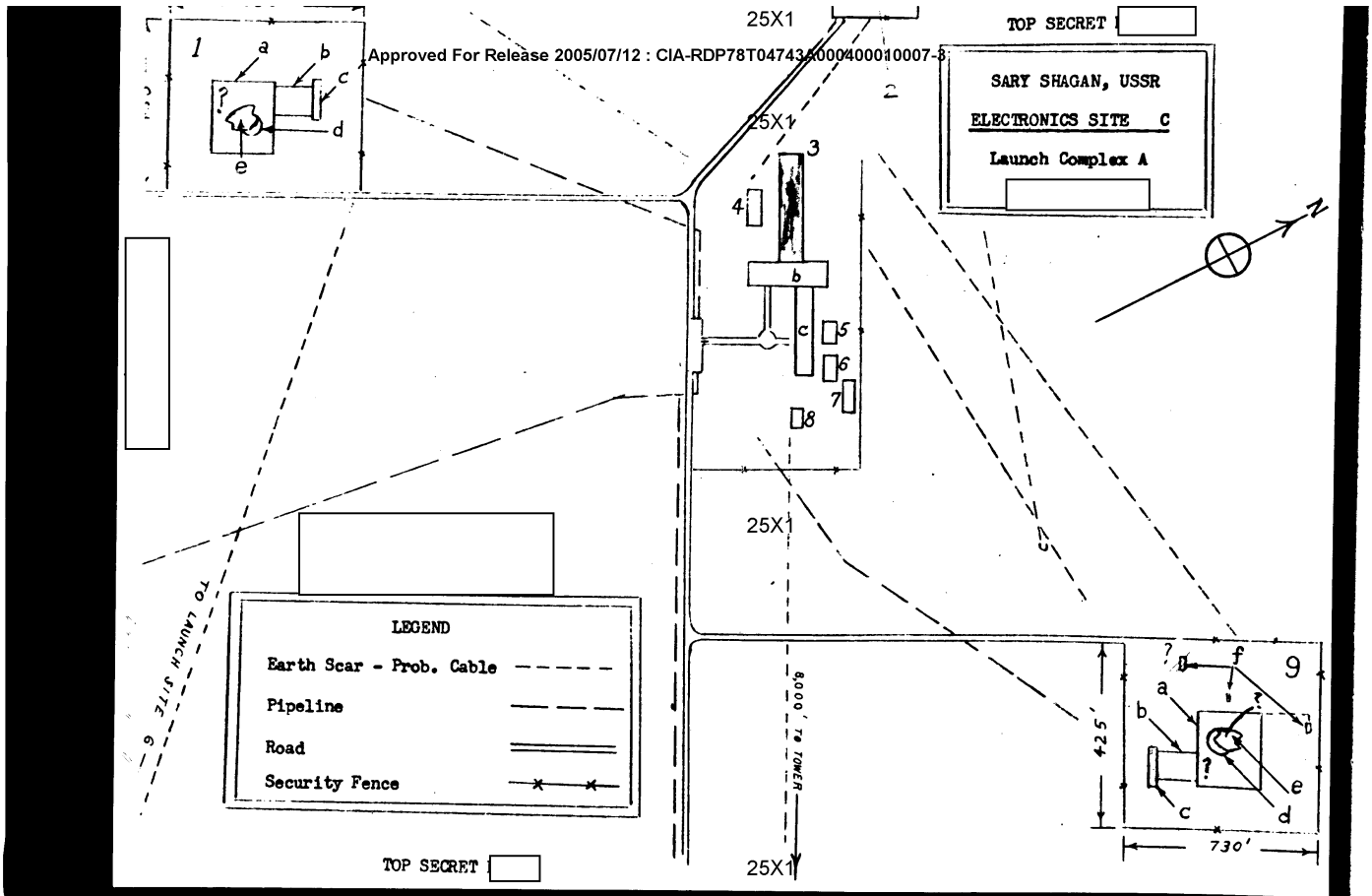
25X1



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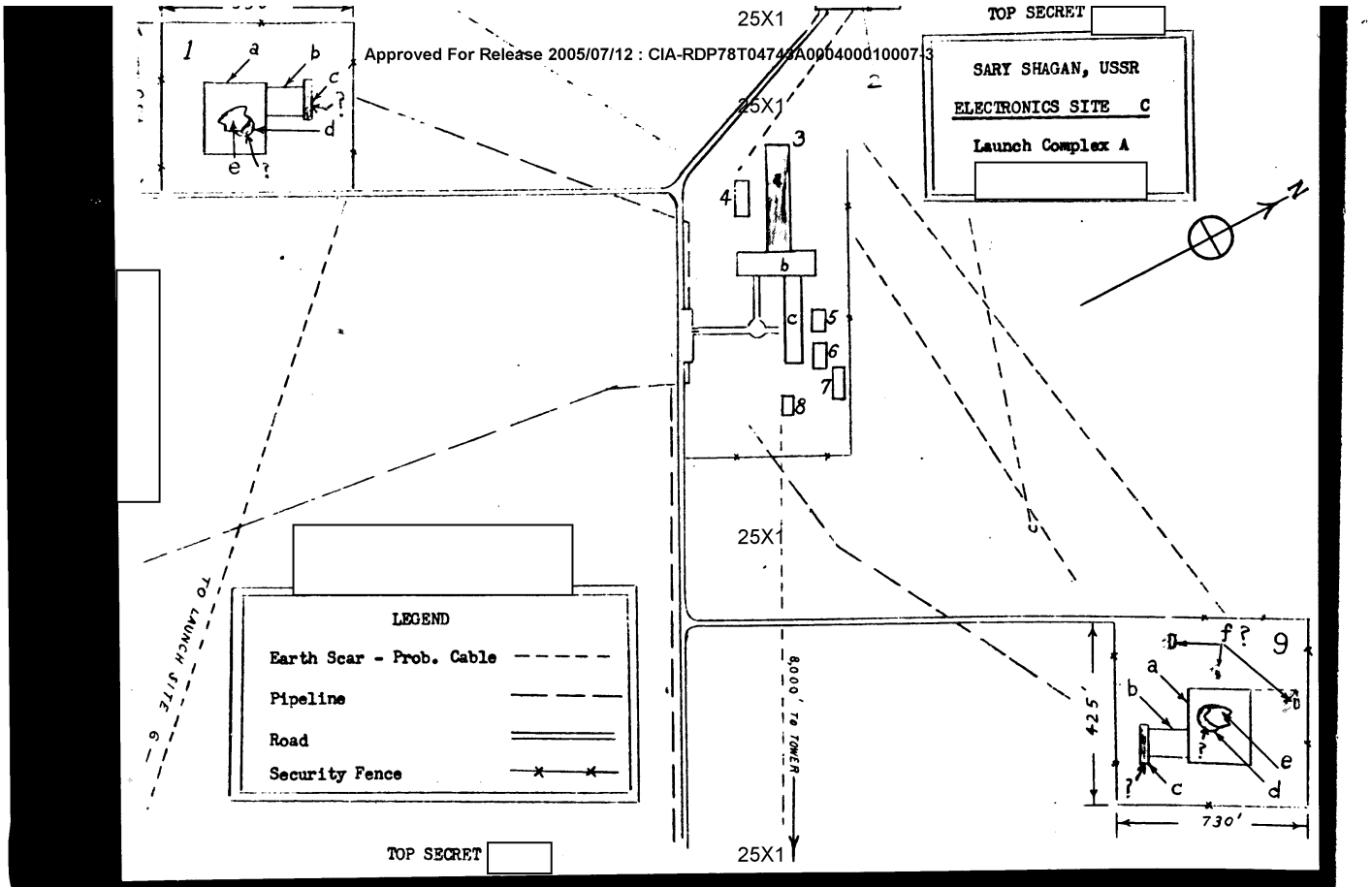

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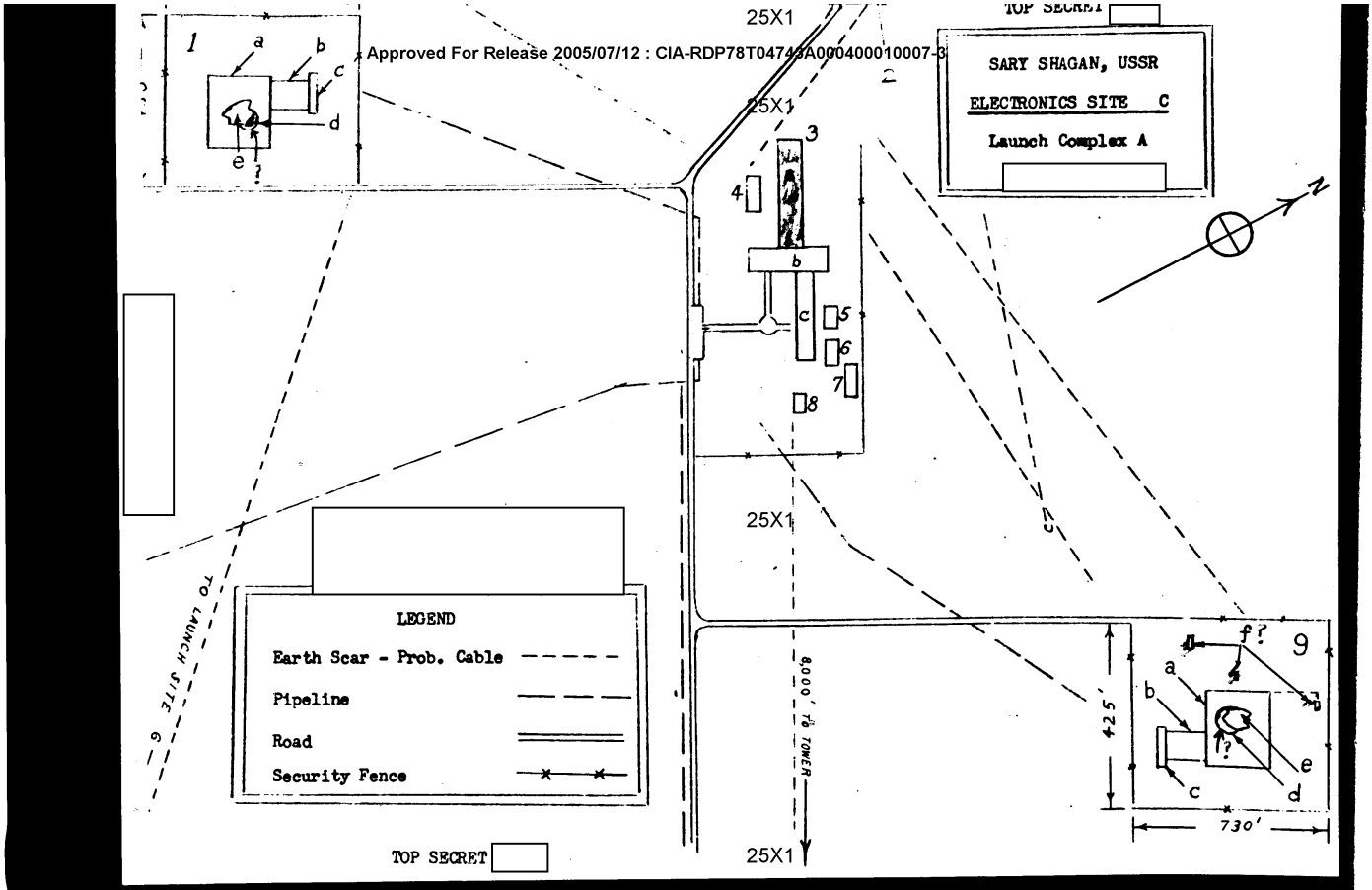
25X1



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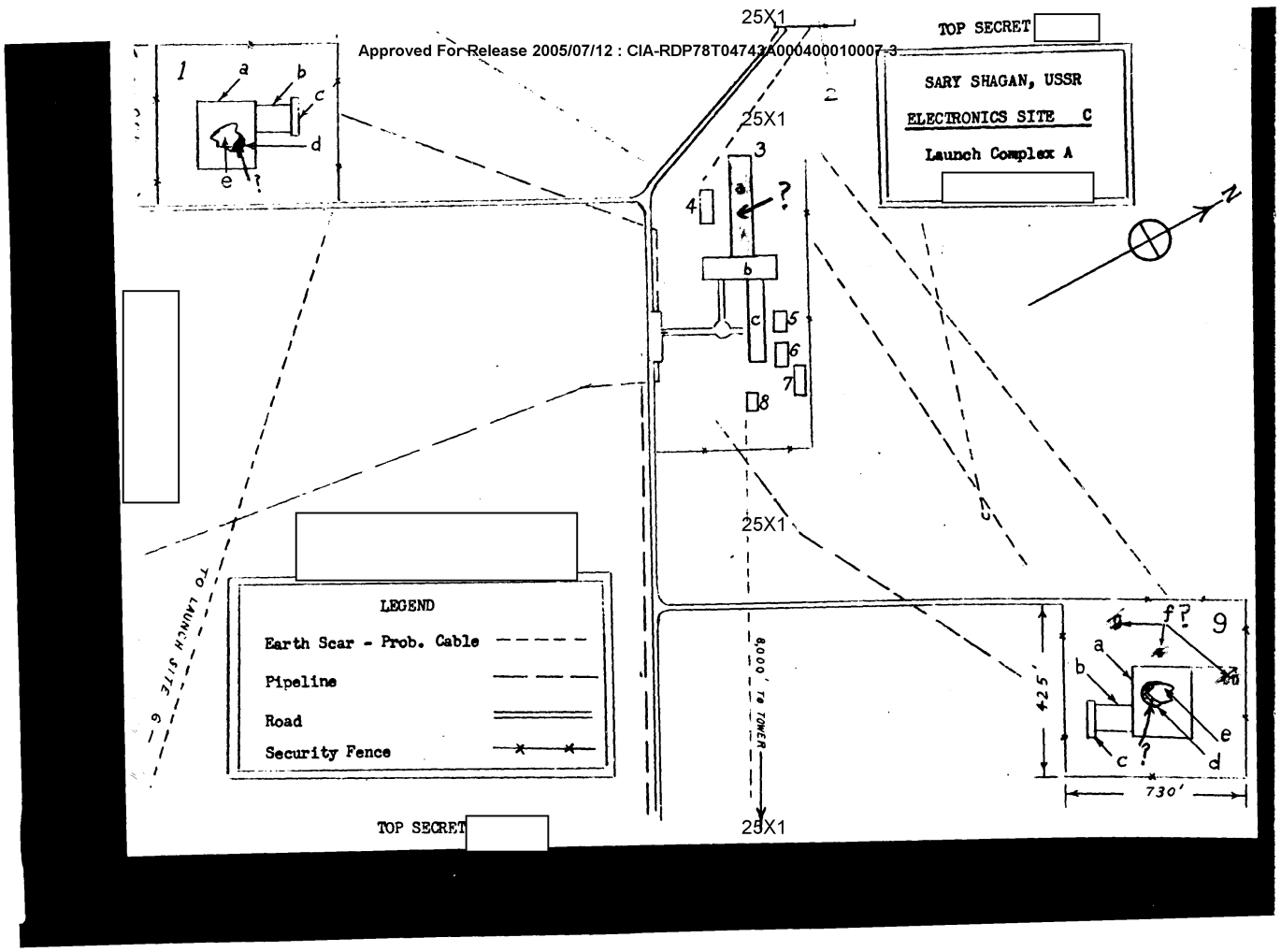

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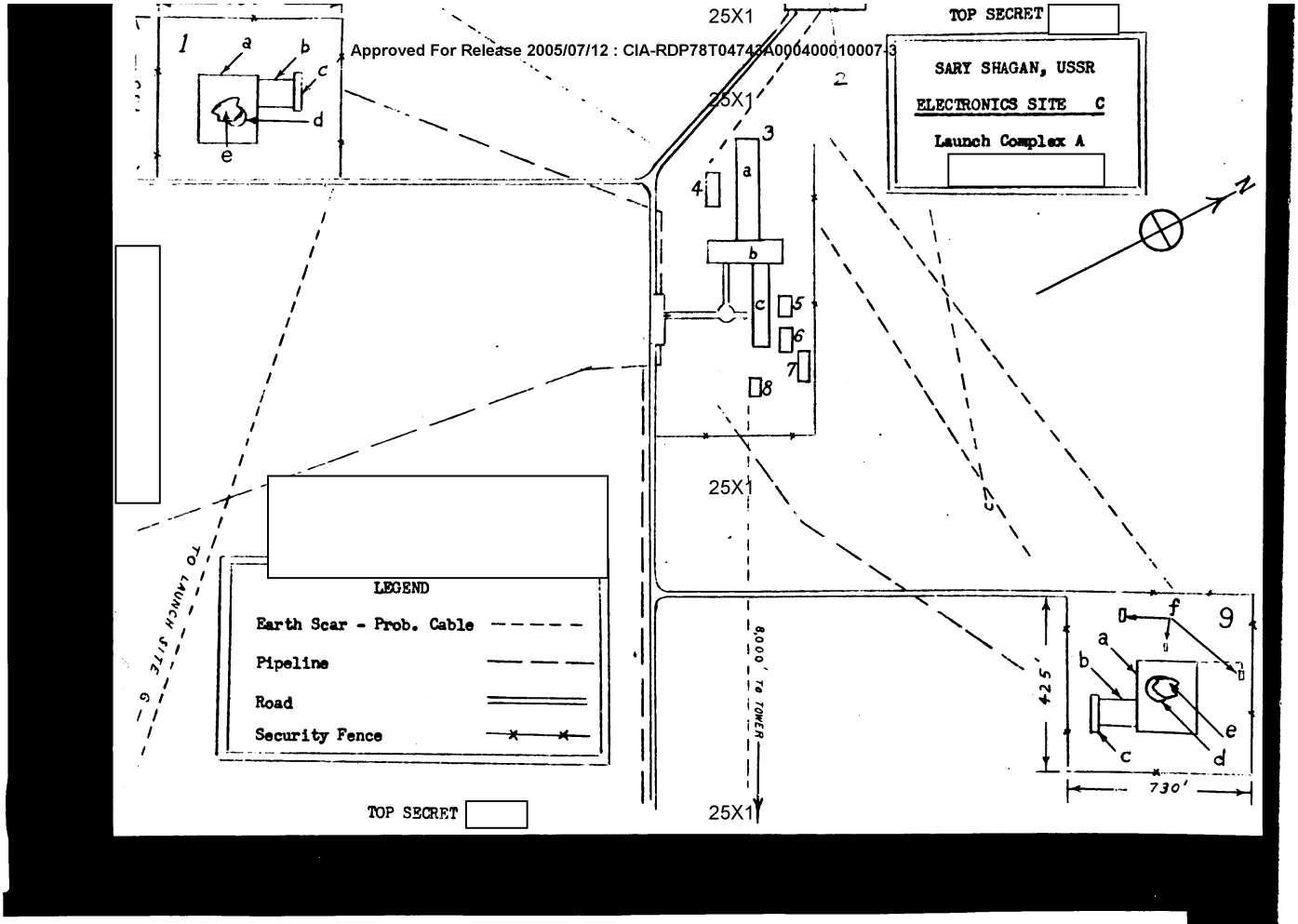

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ELECTRONICS SITE C - LAUNCH COMPLEX A

KEY

Annotation	Object	Approximate Dimensions (ft)	
		Plan	Height
1	Probable electronics facility (secured area)	450 x 550	
1a	Concrete pad	180 x 225	0
1b	Unidentified structure	55 x 130	0 - 5
1c	Probable concrete structure	25 x 130	0
1d	Possible circular object	70 (across)	0
25X1 1e	Tower-like possible radar [redacted]	70 (across)	75
25X1 [redacted]			
2	Spherical dome	50 (diameter)	
3	Control building (39,100 square feet)		15
3a	Control building (West Wing)	70 x 270	
3b	Control building (Center Wing)	40 x 230	
3c	Control building (East Wing)	50 x 200	
4	Building	50 x 110	15
5 & 6	Buildings	40 x 70	15
7	Building	25 x 115	15
8	Building	30 x 55	15
9	Probable electronics facility (secured area)	425 x 730	
9a	Concrete pad	180 x 180	0
9b	Unidentified structure	50 x 130	0 - 5

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	9c	Probable concrete structure	25 x 130	0
	9d	Possible circular object	70 (across)	0
25X1	9e	Tower-like possible radar [redacted]	45 (across)	75
25X1		[redacted]		
	9f	Unidentified small structures, possible vehicles or equipment		

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SARY SHAGAN, USSR

POSSIBLE RADAR INSTALLATION

Electronics Site C

LAUNCH COMPLEX A

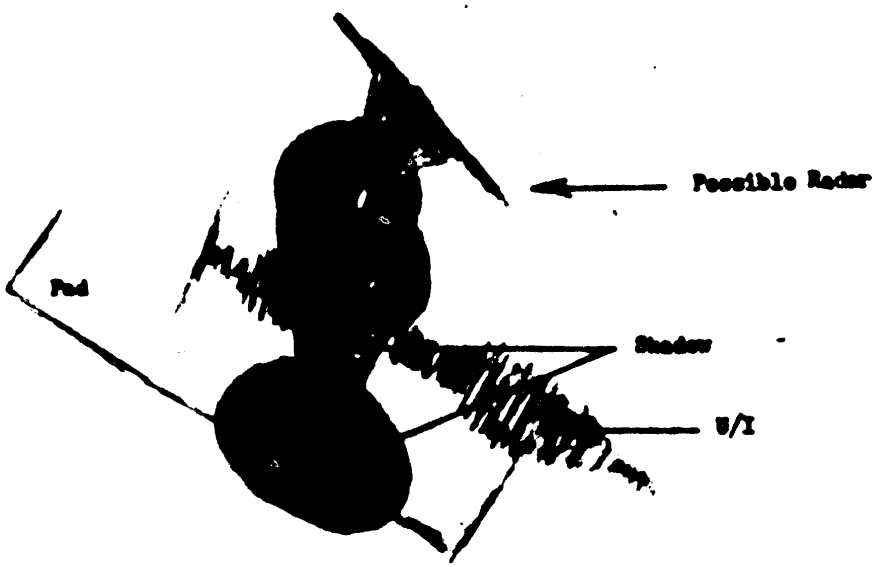

Photo Interpreters Impression

[redacted]

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Attach. No. 11

2

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[redacted]

12

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25X1 TOP SECRET [redacted]

Attachment (12) to:
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TEXTUAL CHRONOLOGY
of
CONSTRUCTION ACTIVITY AT LAUNCH COMPLEX B
SARY SHAGAN ANTIMISSILE TEST CENTER, USSR

(Keyed to Graphic Chronology - Attachment 13)

25X1 1. [redacted]

a. There was no evidence of construction activity in the area now occupied by the unidentified triad of buildings south of Facility B.

b. There was no evidence of the loop road in the southern end of the fenced off area at Facility B.

25X1 2. [redacted]

No change can be detected in either area. Despite the poor quality of this photography, it is believed that extensive construction activity or earth moving would have been detected.

25X1 3. [redacted]

a. Early stages of site preparation in the triad area with extensive earth scarring but no evidence of building foundations.

b. The loop road at Facility B is possibly under construction.

25X1 4. [redacted]

a. Construction on the triad of buildings is apparently in advanced stages, with all walls and probably the roofs in place. The small structure (Annotation 2) behind the large building can not be seen.

b. Construction activity at Annotation 1 is noted. Trenches in the triad area are visible and the loop road at Facility B is possibly under construction.

25X1 5. [redacted]

a. Construction activity is in evidence throughout the area of the triad installation, however, Building 2 is probably still missing. Evidence of construction activity on a loop road pattern in front of the triad of buildings is noted for the first time.

b. The loop road at Facility B is probably complete.

25X1 TOP SECRET [redacted]

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c. The trench in the triad area can be seen running through the construction activity at Annotation 1 to Building 3. This and other trench work is depicted in the graphic chronology.

25X1 6. [redacted]

No change can be detected since the last mission.

25X1 7. [redacted]

Building 2 is seen under construction for the first time. Other construction activity continues.

25X1 8. [redacted]

The two small buildings appear complete with objects on the roofs. Construction activity can be seen on the roof of the large structure.

25X1 9. [redacted]

Construction activity continues. The trench between area annotated 1 and Building 3 appears to have been enlarged.

25X1 10. [redacted]

a. Building 13, a small structure in front of Building 3, is seen for the first time. It is not possible to tell if this building extends to the edge of Building 3 as it is partly hidden by the shadow of the large building.

b. Possibly three buildings are under construction in a new area of activity at Annotation 12.

c. A possible trench has been added behind the triad area. Two small possible buildings can be seen alongside this earth scar.

d. Activity in the area annotated 1 continues, however, it is not possible to identify the nature of this activity. It has possibly been a construction support area throughout the period of observation.

25X1 11. [redacted]

a. Construction activity in the area continues, especially in the area southeast of the large building (Annotation 3) and on the loop road network in front of the triad of buildings.

b. A circular dish, approximately 50 feet in diameter, can be seen on or near the ground along side of Building 3. It may be the dish which later photography reveals atop the tower yet to be constructed on the roof of Building 3.

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c. Construction of a trench between the area of Building 5 and the loop road at Facility B is in progress. A possible trench or ditch can be seen on the south side of the loop road.

25X1 12. [redacted]

Construction activity in the area continues. Building 2 is probably complete. The tower on top of Building 3 is about 50 percent complete.

25X1 13. [redacted] - All annotation numbers referred to here are on Attachment 15, unless otherwise specified.

a. Construction activity continues. The loop pattern of roads is now more distinct.

b. The possible launch segments at Annotation 1, are approximately the same size and are spaced the same distance apart as those at operational SA-1 SAM sites in the Moscow area. Other definite similarities with Moscow SAM Sites E-15, E-24 and E-33 are possible and are now being given detailed photogrammetric analysis.

c. Two possible launch segments can be seen at Annotation 1. Unidentified slender objects approximately 75 feet long can be seen inside these segments. Possible launch segments of a different configuration are being constructed on the other side of the central road (Annotation 5).

d. Two probable buildings now appear at Annotation 12, Attachment 13. They are possibly one story structures with plan dimensions of approximately 30 by 100 feet.

e. The circular road at Annotation 4, appears to bend outward, and an unidentified shape can be seen just inside this bend. The shape is possibly mound like, with an unidentified dark object near its center.

f. Signs of earth scarring and other activity can be seen at the loop road, Annotation 6. A trench from the small building in the triad area to the loop road is now complete.

g. Activity in the area annotated 2 continues. For the first time it is possible to identify definite structures in this area. The central structure is approximately 20 by 90 feet. Grouped around this long narrow structure are five or six small structures approximately 20 by 50 feet in size. All structures are very low, casting little or no shadow.

h. An 85 foot tower with a 50 foot circular dish is sited at Annotation 3. Attachment 16 contains a line drawing prepared by NPIC/Technical Intelligence Division.

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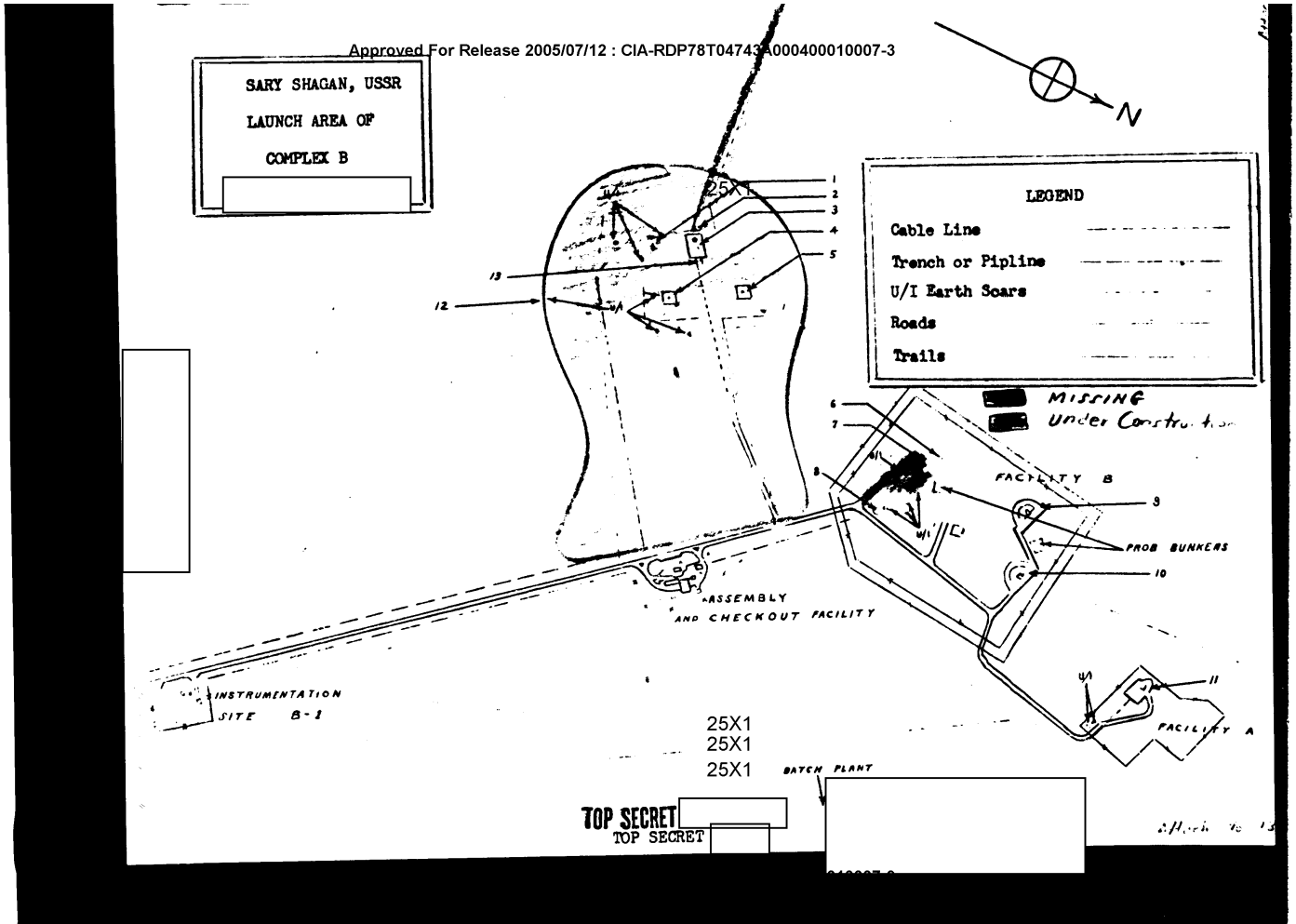

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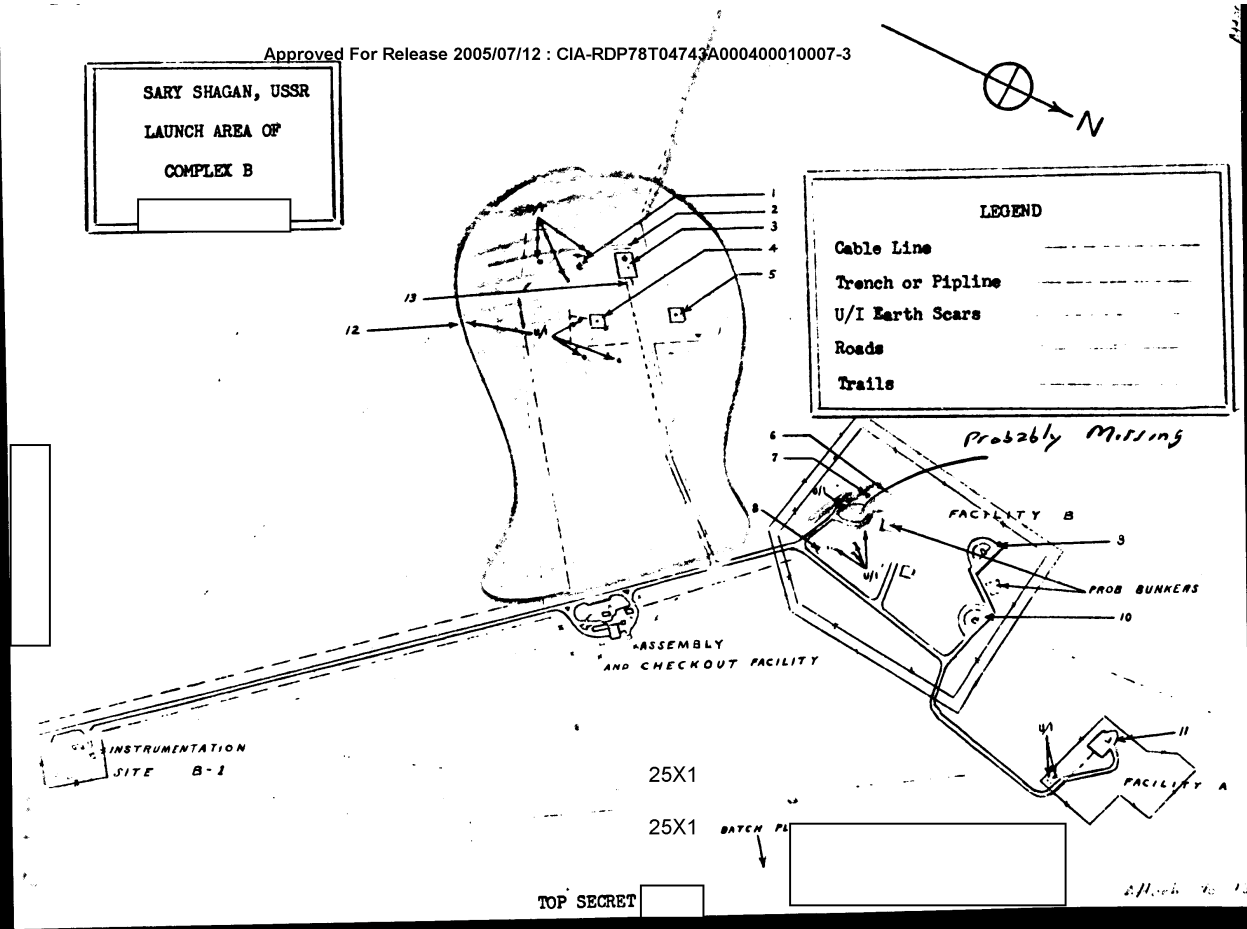

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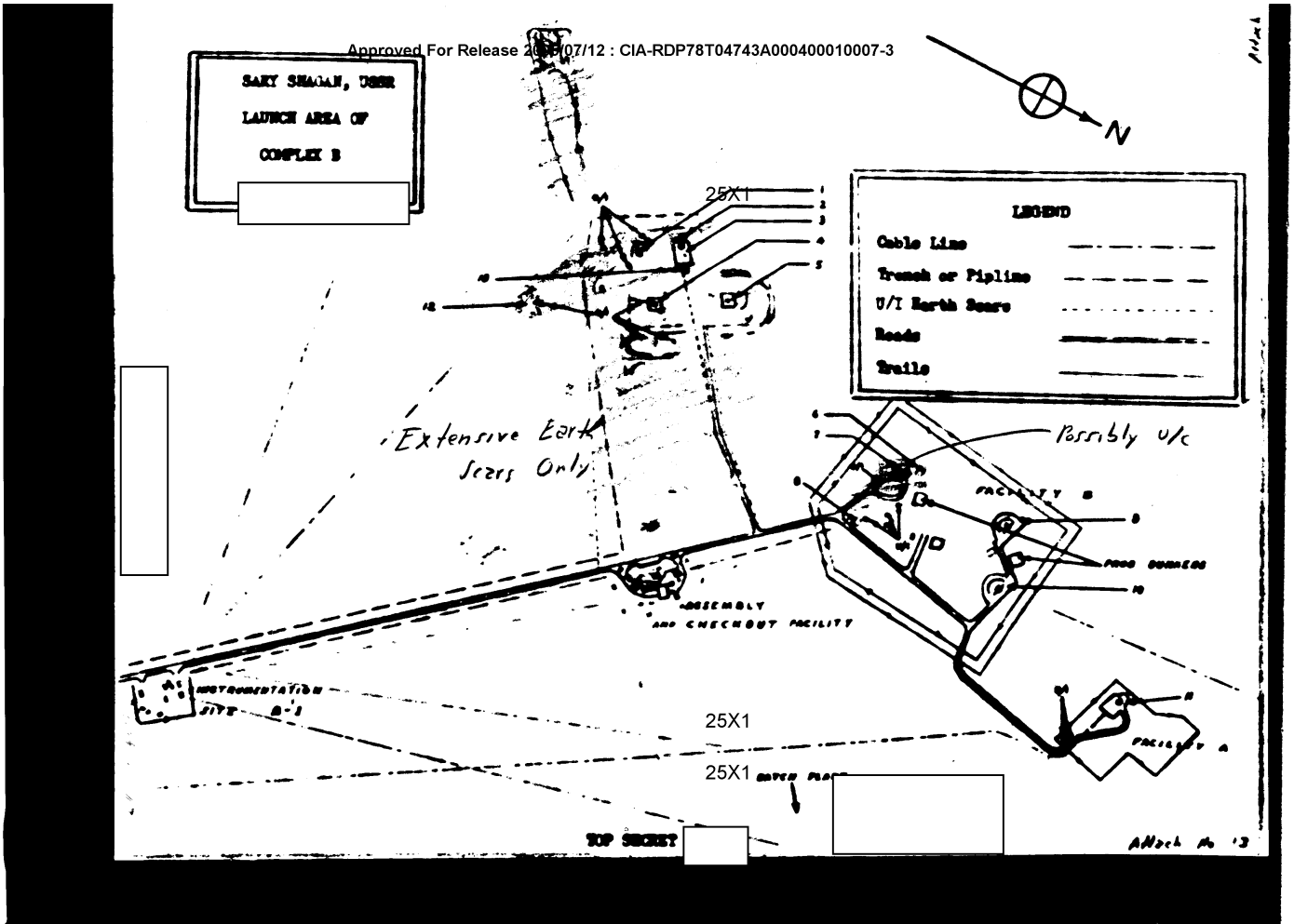

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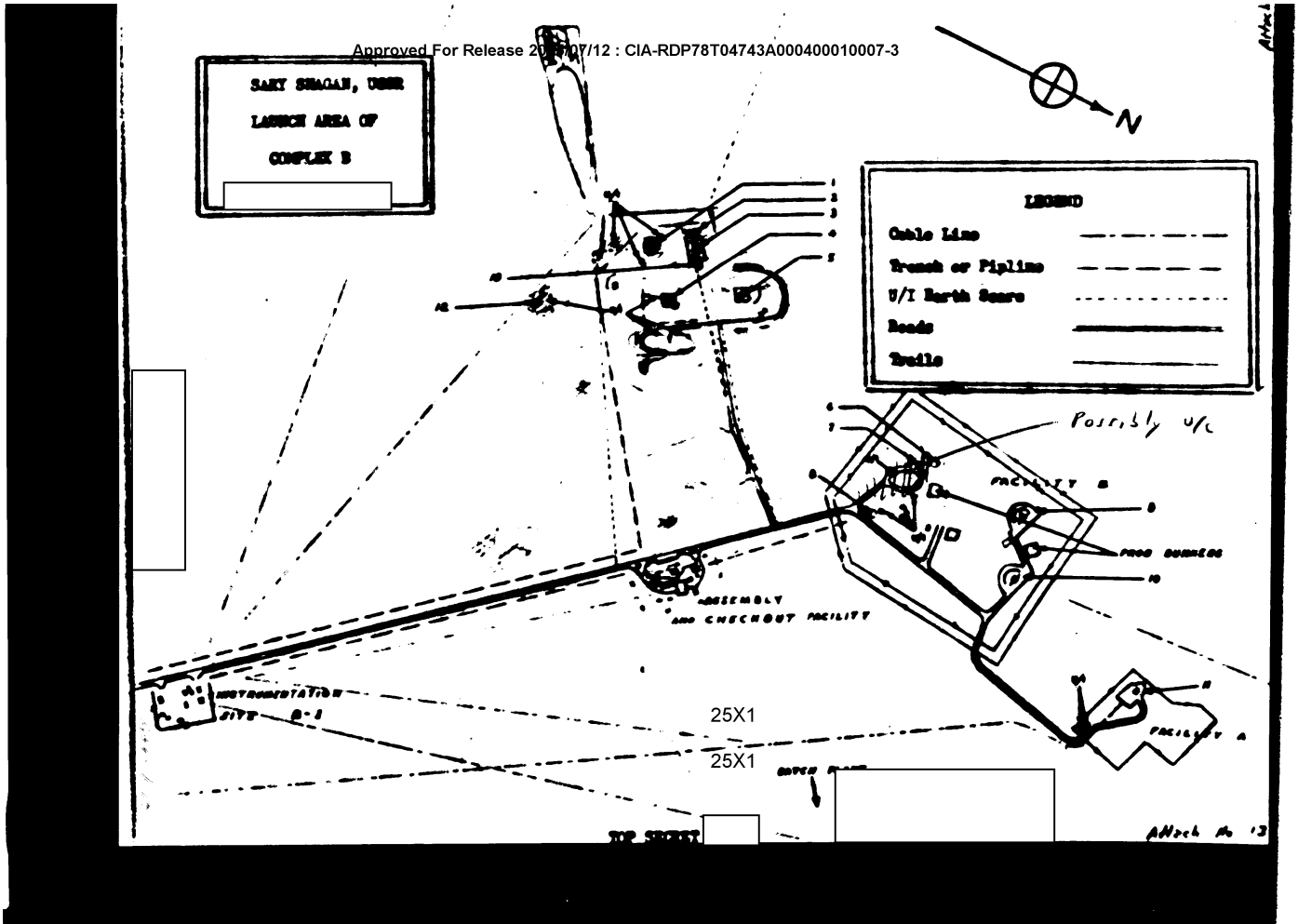

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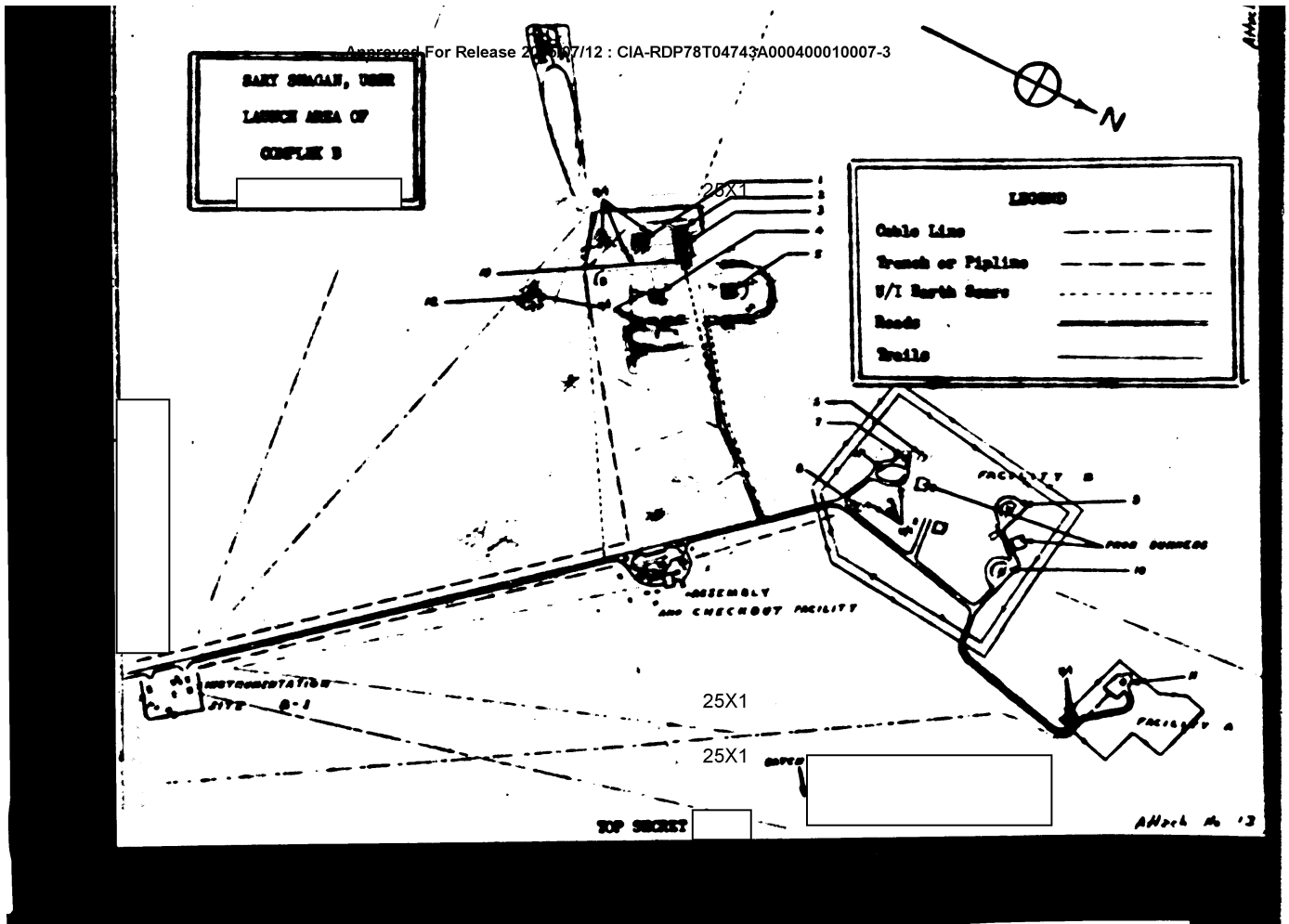

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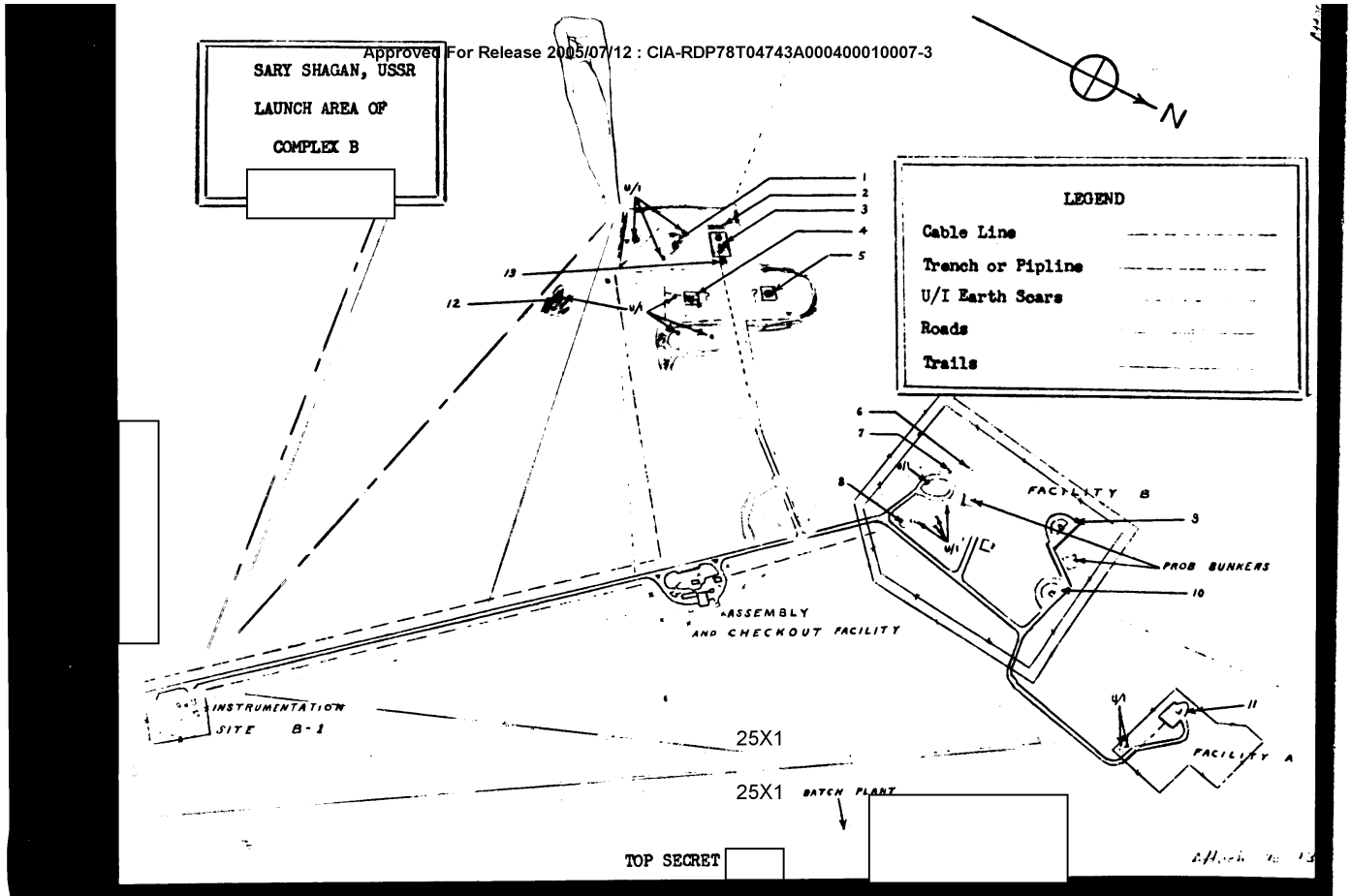

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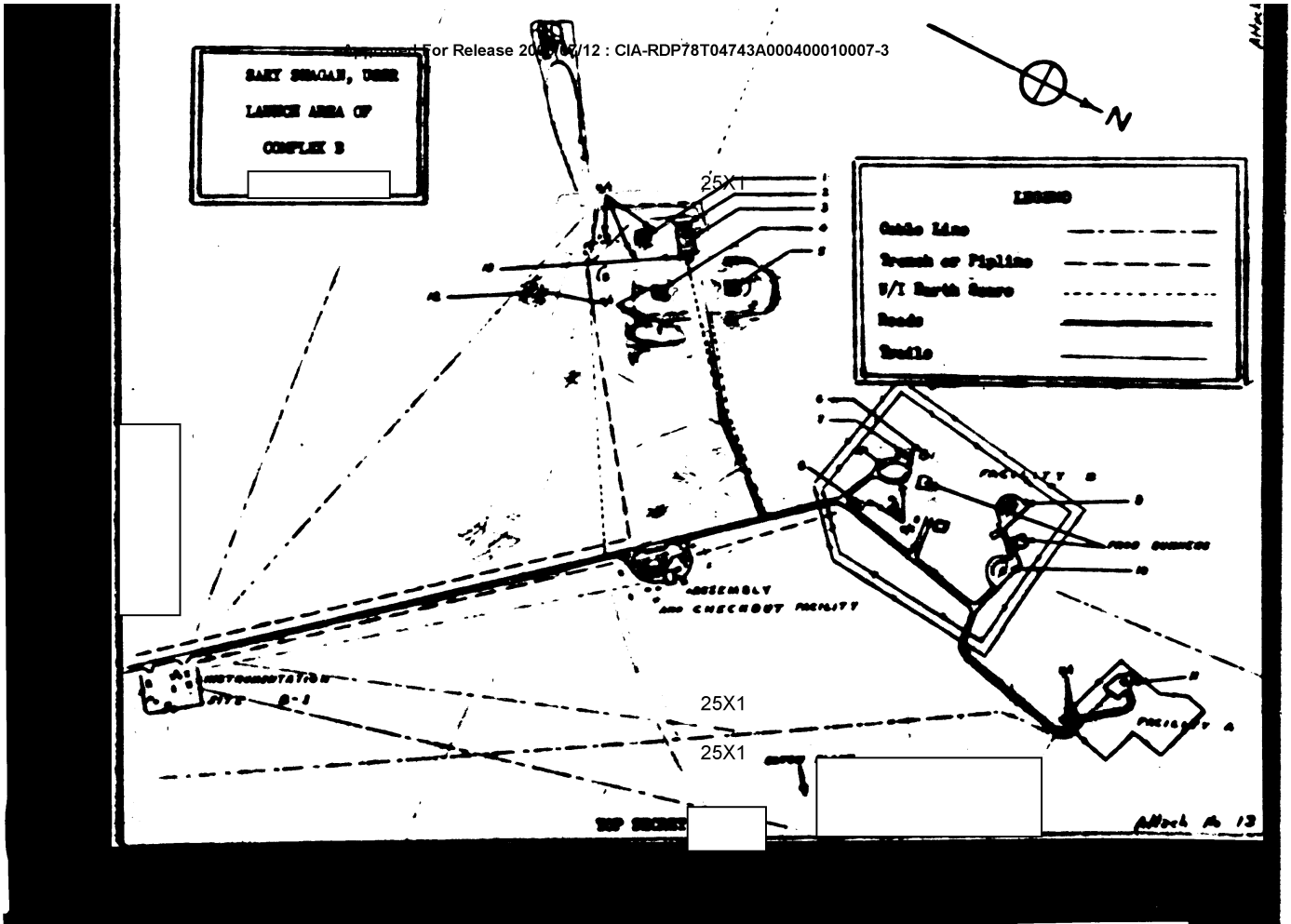

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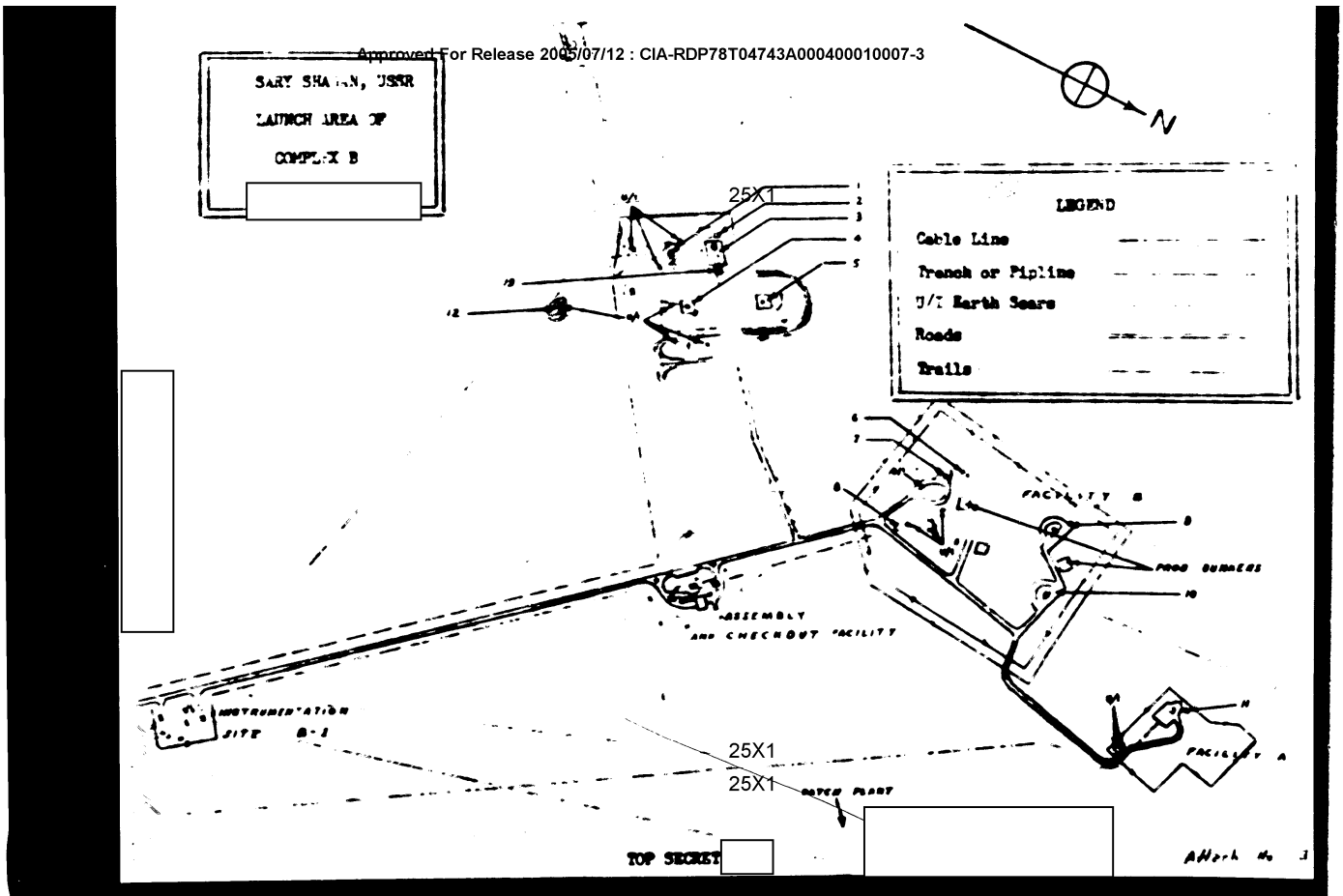

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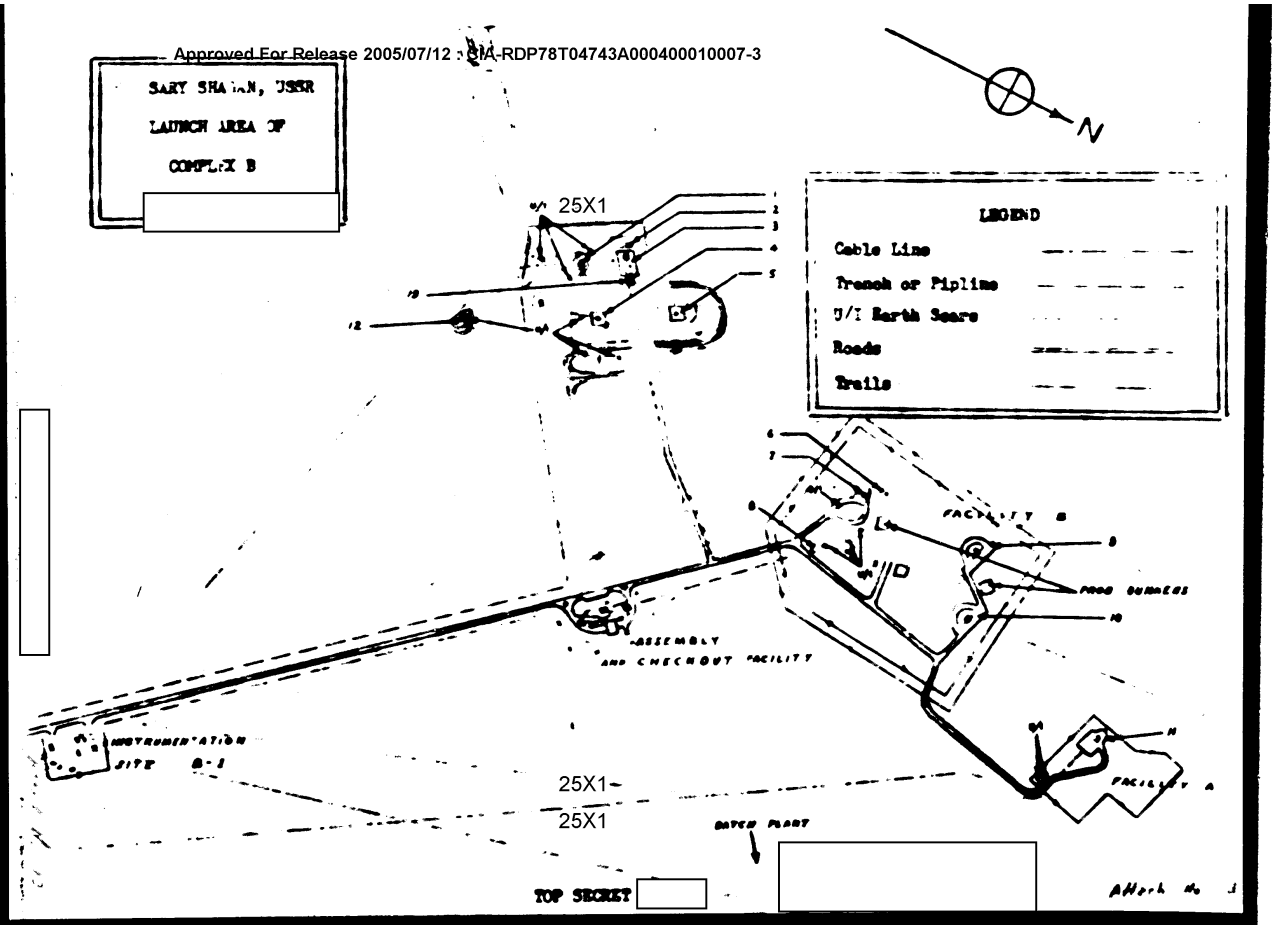

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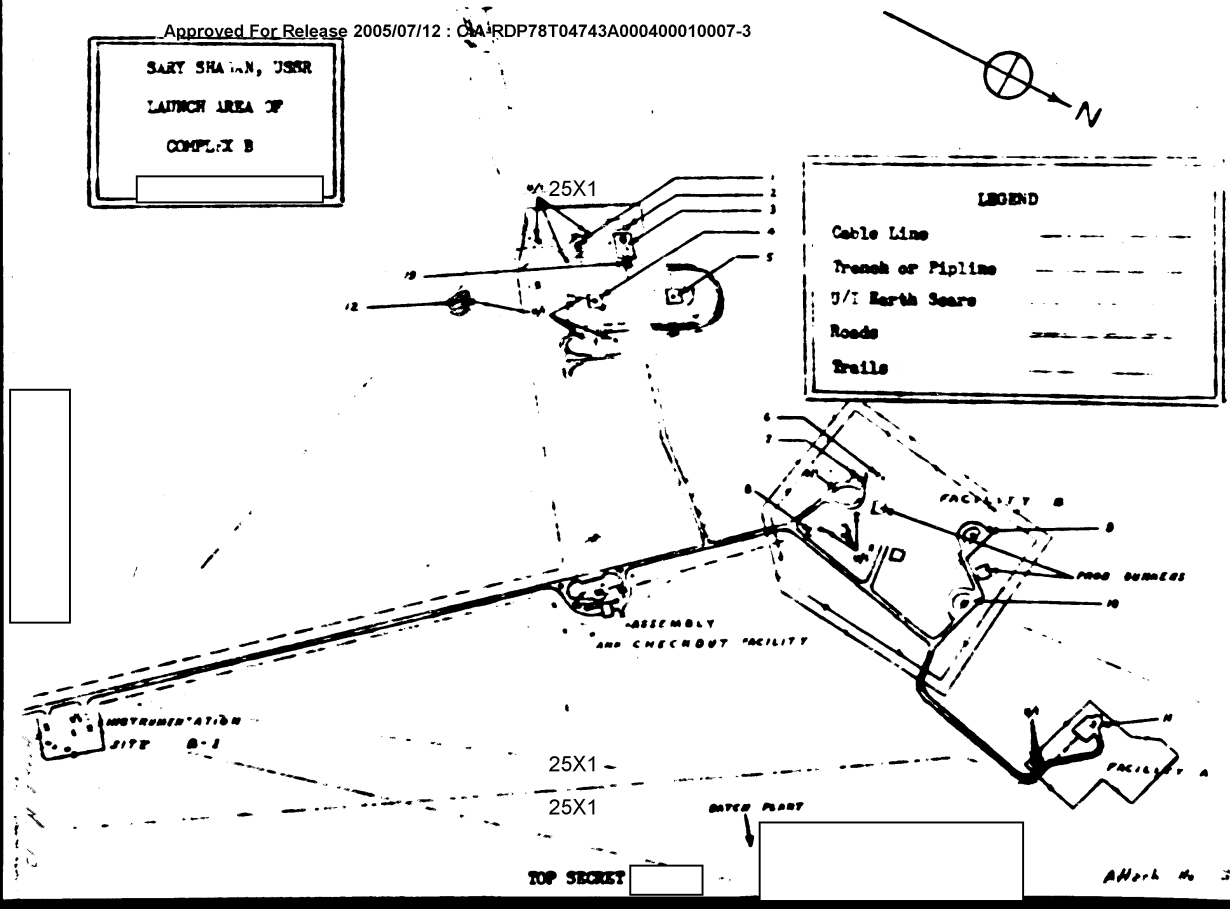

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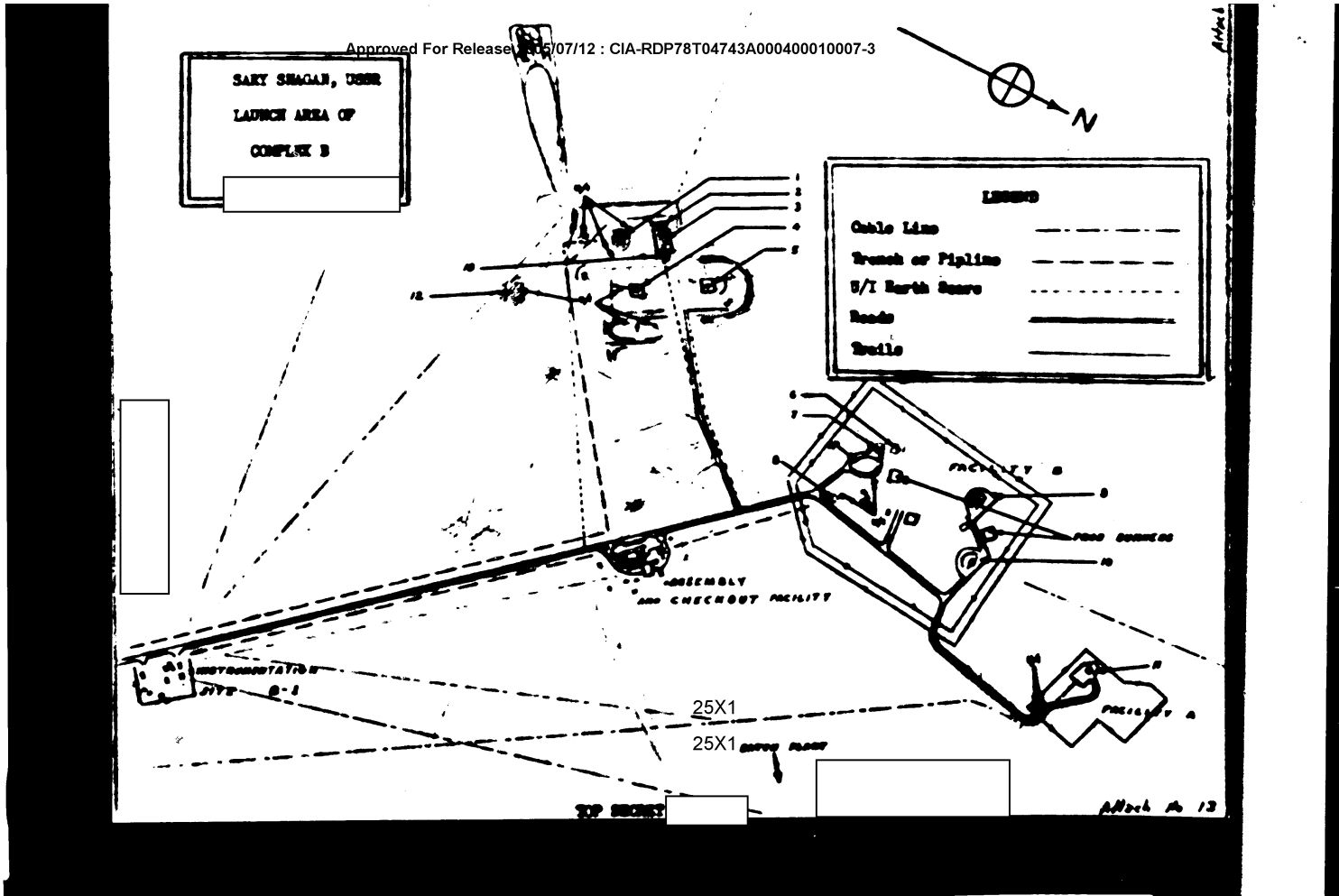

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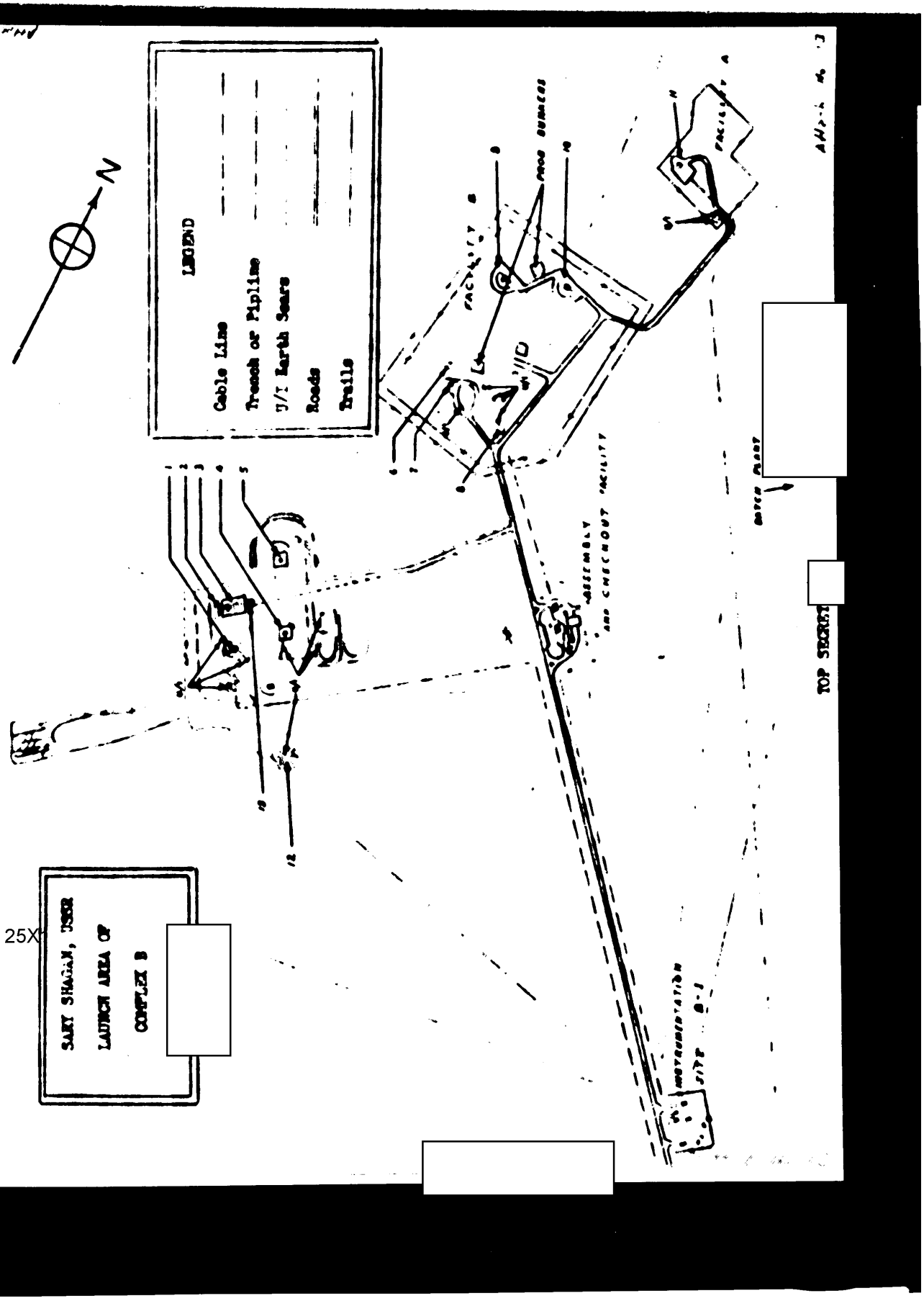

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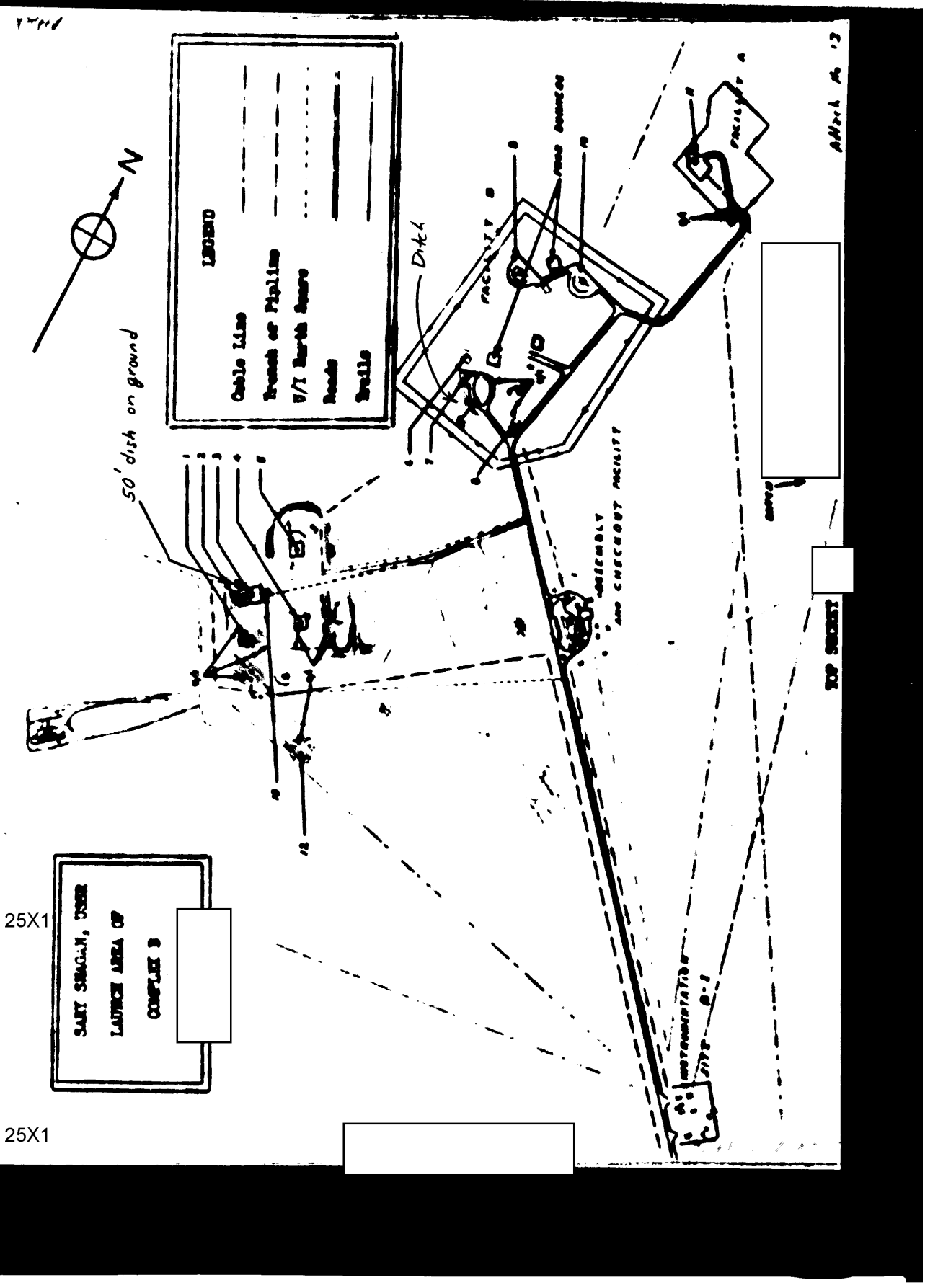

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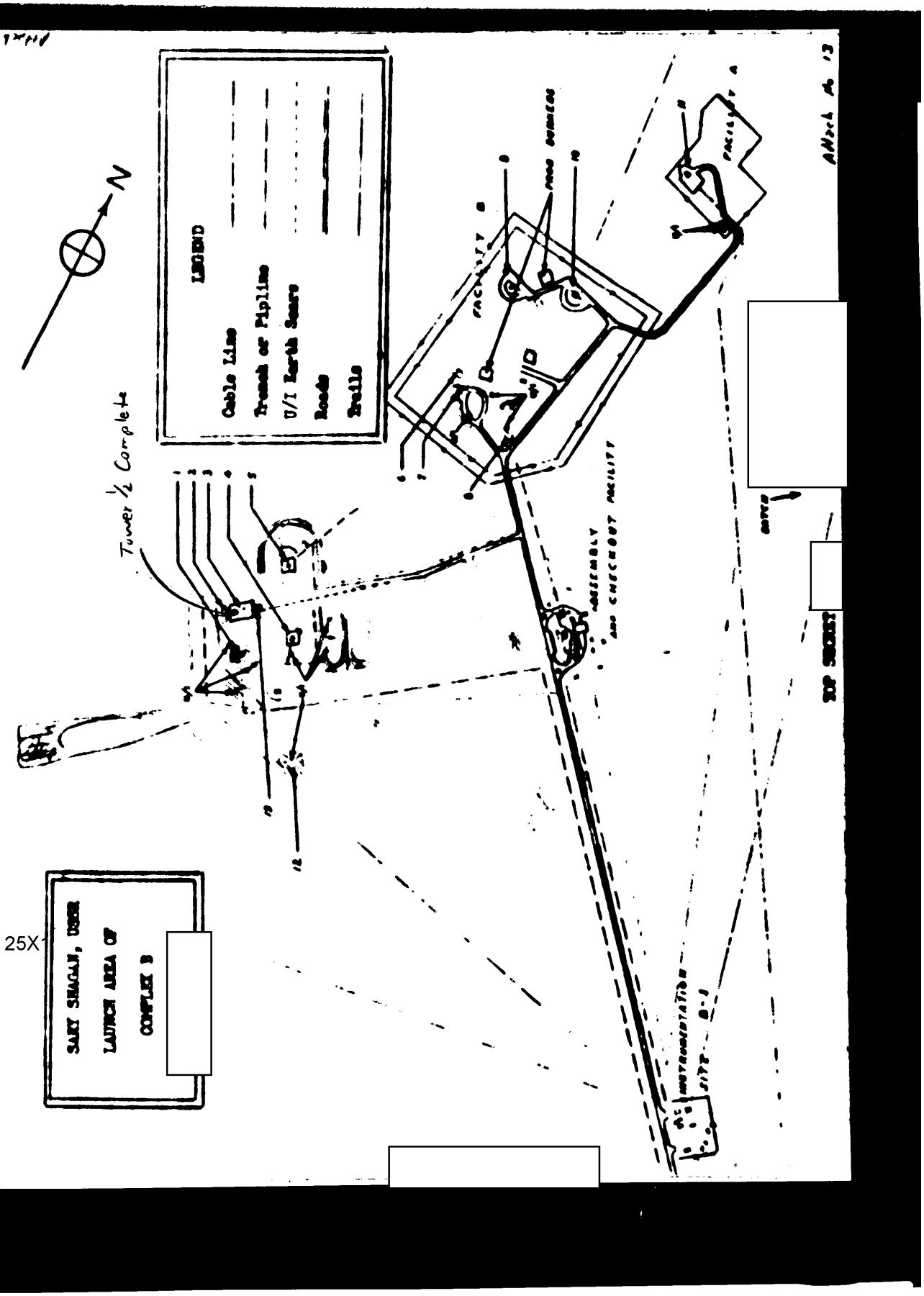

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25X1

TOP SECRET [redacted]

Attachment (14) to: [redacted]
M/EB 410/63
Page 1 of 1

SARY SHAGAN, USSR, LAUNCH AREA OF COMPLEX B

KEY

Annotation	Item	Approximate Dimensions (ft)	
		Plan	Height
1	Construction activity	150 x 150	
2	Building	30 x 115	30
3	Building	115 x 225	30
4	Building	90 x 90	30
5	Building	90 x 90	30
6	Unidentified object in cleared area	20 x 20	?
7	Possible secondary loop road, enclosing area	60 x 100	
8	Circular concrete pad	50 (diameter)	
9	Pad B-2 (See Figure 29, page 97, Report [redacted]		
10	Pad B-1 (See Figure 29, page 97, Report [redacted]		
11	Launch site (See Figure 30, page 99, Report [redacted]		
12	Construction activity - two probable buildings in area	30 x 100	10
13	Building (not possible to tell if it joins Building 3) The building is 30 feet wide and 30 to 60 feet long, depending how far into the shadow it extends.		

25X1

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[redacted] 15

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25X1

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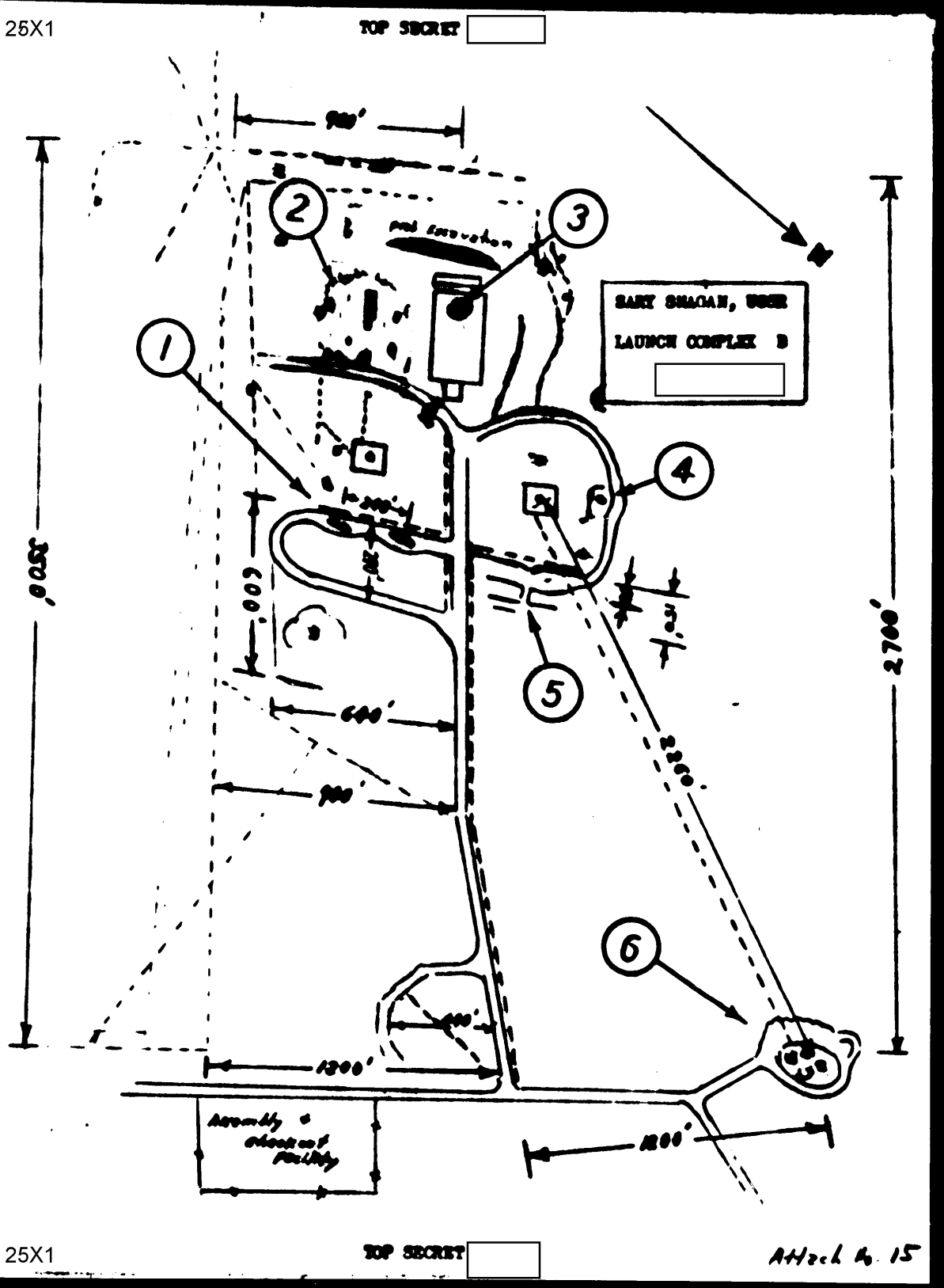

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25X1

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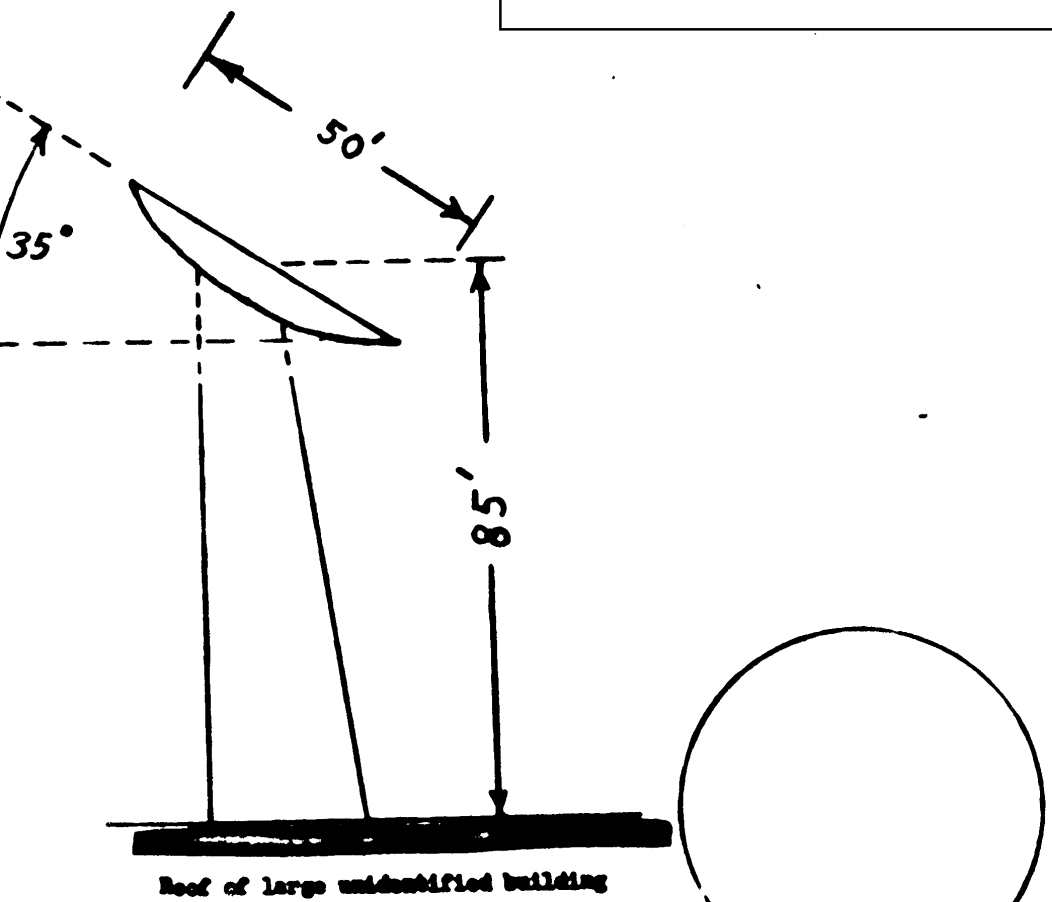
EAST SIBERIA, USSR

LAUNCH AREA OF COMPLEX B

S/T Electronics Building/Dish



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[redacted]

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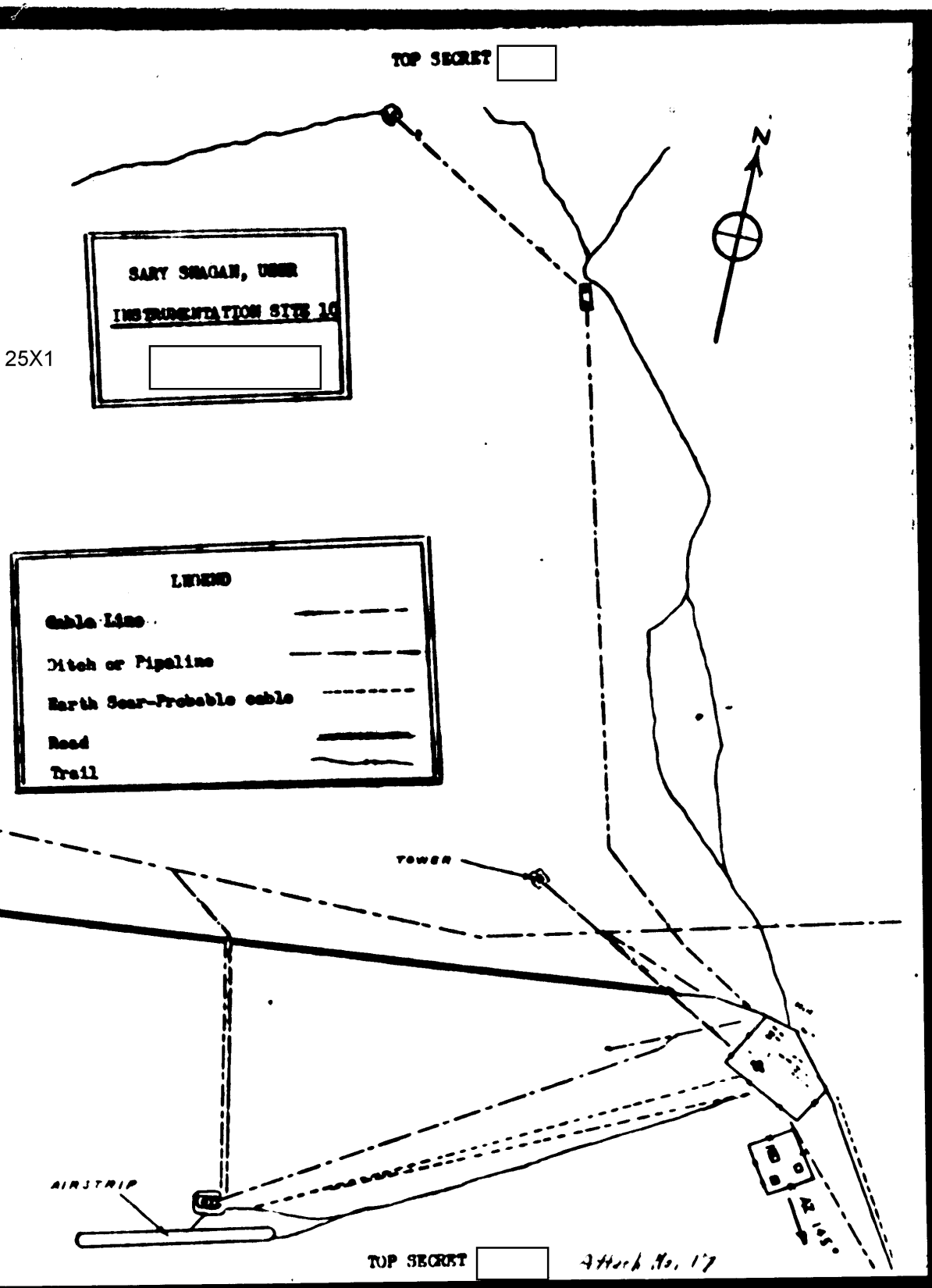

25X1

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Attach. No. 17

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[redacted]

18

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25X1 TOP SECRET [redacted]

Attachment (18) to: [redacted]
M/EB 410/63
Page 1 of 3

TEXTUAL CHRONOLOGY
of
CONSTRUCTION ACTIVITY AT INSTRUMENTATION SITE 10, SARY SHAGAN, USSR

25X1 (Keyed to Graphic Chronology - Attachment 19)

1. [redacted]

a. This installation is referred to as "Zone D" in Report [redacted] pages 45 to 49. The two large control buildings (Annotation 47 and 50 on Attachment 19), and other support buildings, occupy an area approximately the same shape and size as currently present. Buildings 1 through 4, 6, 10, and 30 are possibly missing.

b. The 275 foot lattice tower, located approximately 6,400 feet west-northwest of the control buildings was in place.

c. A circular wall formed the uncompleted base for the 120 foot spherical dome, which was not in evidence at the time. The small dome (Annotation 48) was probably in place.

d. There is no evidence of the unidentified triad of buildings or of any construction activity in that area.

e. It is not possible to determine the presence of the possible electronics
25X1 facility located approximately three and a half nautical miles north-northwest of the instrumentation site (See Attachment 17).

2. [redacted]

Quality of photography permits only limited interpretation, however, the unidentified triad of buildings does not appear to be present nor is there any evidence of construction activity in the area. No changes are noted in other areas.

25X1 3. [redacted]

a. The triad of buildings is under construction. Buildings 51 and possibly 52 and 54 are missing. A new trench system is visible in the triad area.

b. Construction support activity can be seen in the area just across the main road, north of the instrumentation site.

c. A possible cable trench can be seen extending approximately three and a half nautical miles north-northwest from the instrumentation site. It passes

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through a small secure area and terminates at a cleared area approximately 90 feet across. The possible cable scar is accompanied by a number of trails and
25X1 track activity, most of which bypasses the small secured area. These features do not appear to change throughout the subsequent coverage. (Note Attachment 17).

4. [ ]

a. Building 52 is possibly under construction. Construction work on the triad of buildings probably continues.

25X1

b. There is no apparent change in the instrumentation site support area.

5. [ ]

a. Construction activity probably continues in the triad area.

b. In the site support area, Buildings 1 and 2 are now visible. Building 30 is possibly under construction. Some form of construction activity is possibly going on at Buildings 4, 6 and 10.

25X1 c. The access road from the north, leading to the entrance of the triad area, is increasing in width, indicating extensive use.

6. [ ]

25X1 Building 56 is possibly complete. Construction probably continues on the other buildings.

7. [ ]

a. Construction activity continues in the triad area, however Buildings 52 and 56 appear completed. Unidentified objects or devices can be seen on top of Buildings 53 and 56. The device is located on the rear half of Building 53 and appears centered on Building 56. A device is possibly centered on top of Building 55, however the dark tone of the roof does not permit positive confirmation.

b. A cleared area, with possibly four objects arranged in an Adcock type pattern, is now located 1,200 feet in front of Building 53. The diagonal of this pattern is approximately 60 feet. A cable scar connects it with Building 56.

c. The construction support area north of the site, just across the main road, is equipped with a possible batch plant. The area contains two single story buildings approximately 30 by 100 feet and approximately four smaller
25X1 possibly shed-type buildings and approximately four 30 by 100 foot foundations. This area has not changed appreciably since it was first detected on [ ]
[ ]

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25X1

8. [redacted]

a. Construction activity in the triad area continues. The roofs of Buildings 53 and 55 indicate probable construction activity. The device or object on Building 56 has probably been removed.

b. Areas of possible construction activity can be seen in the support area.

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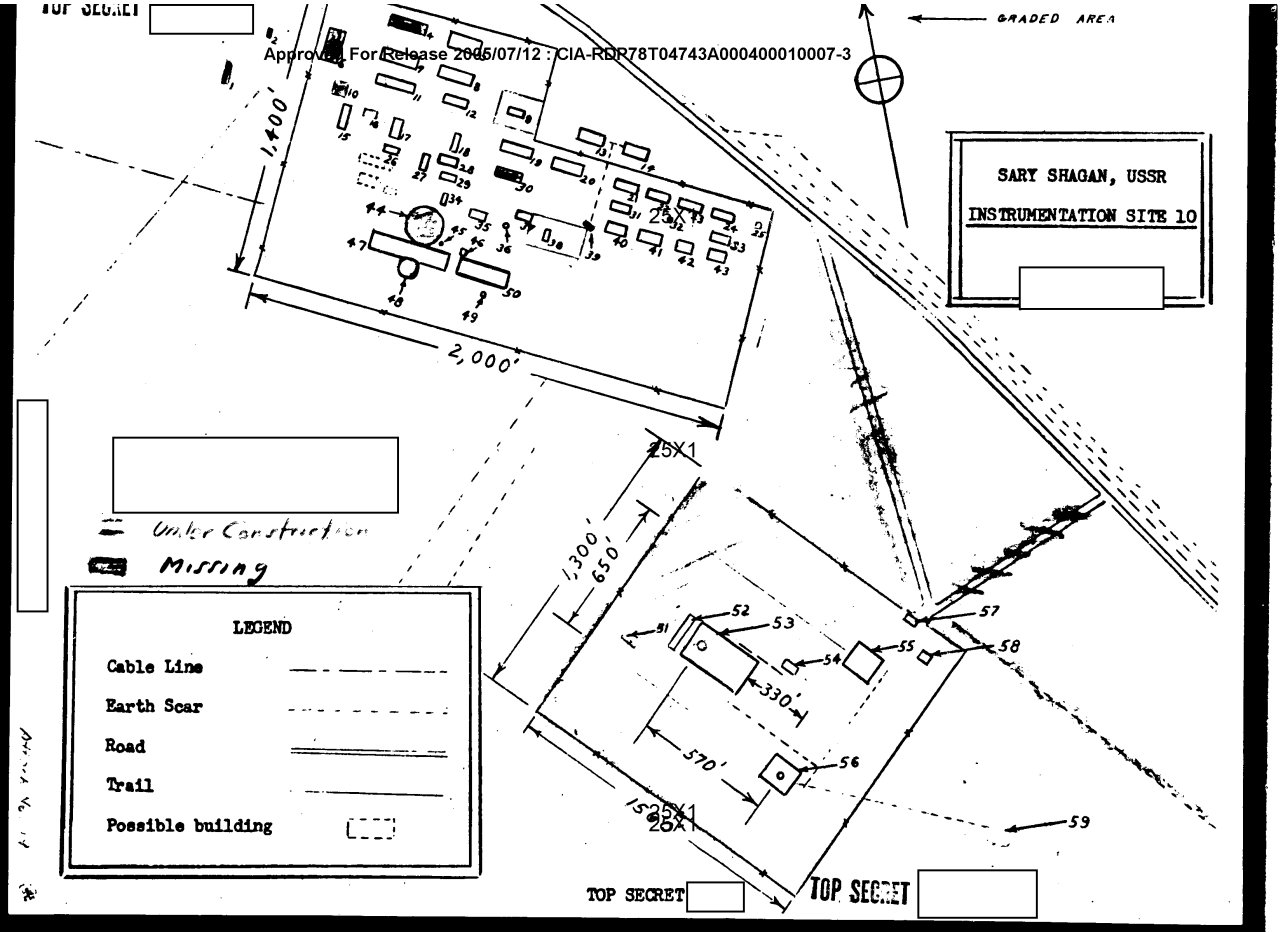

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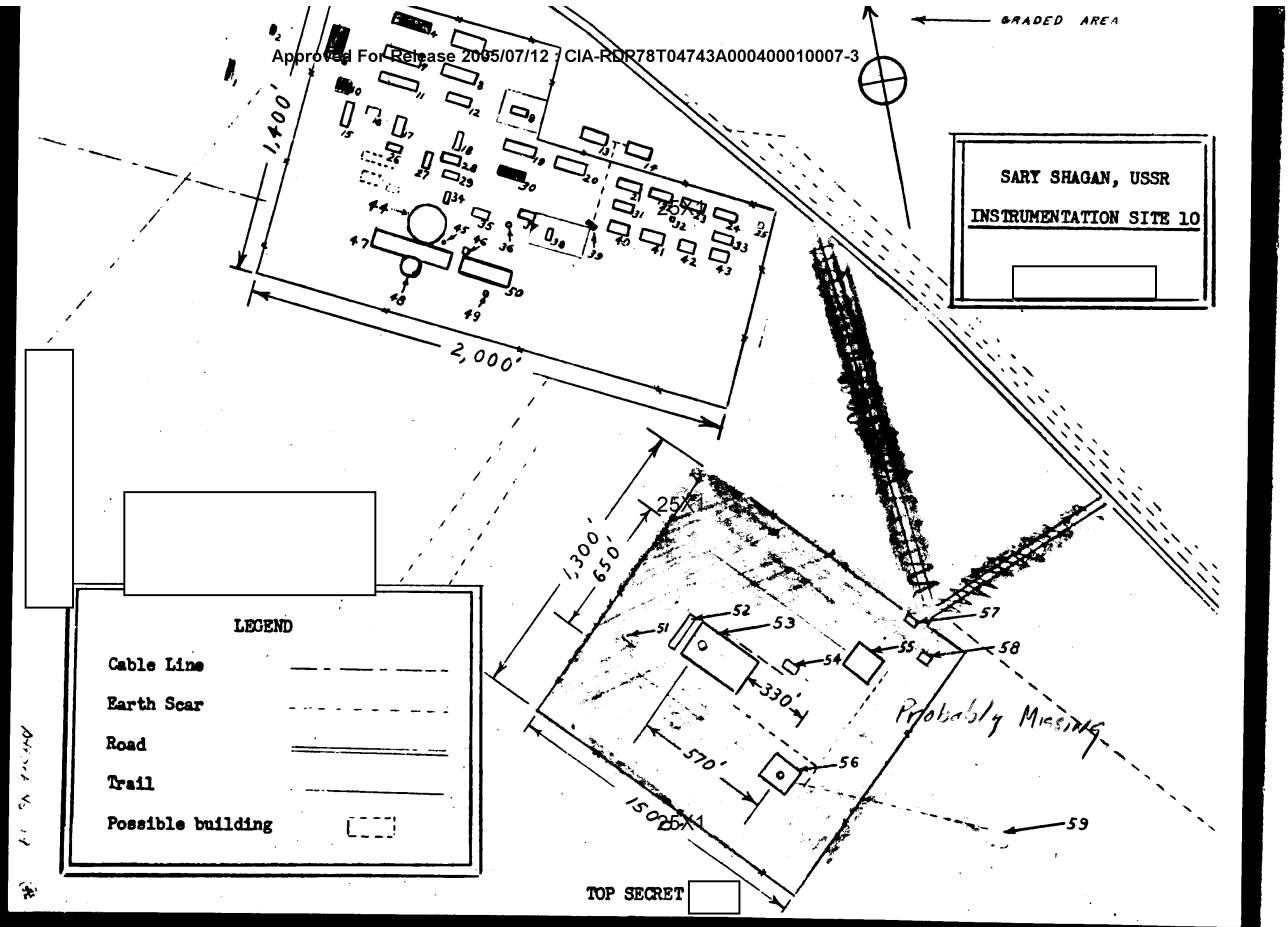

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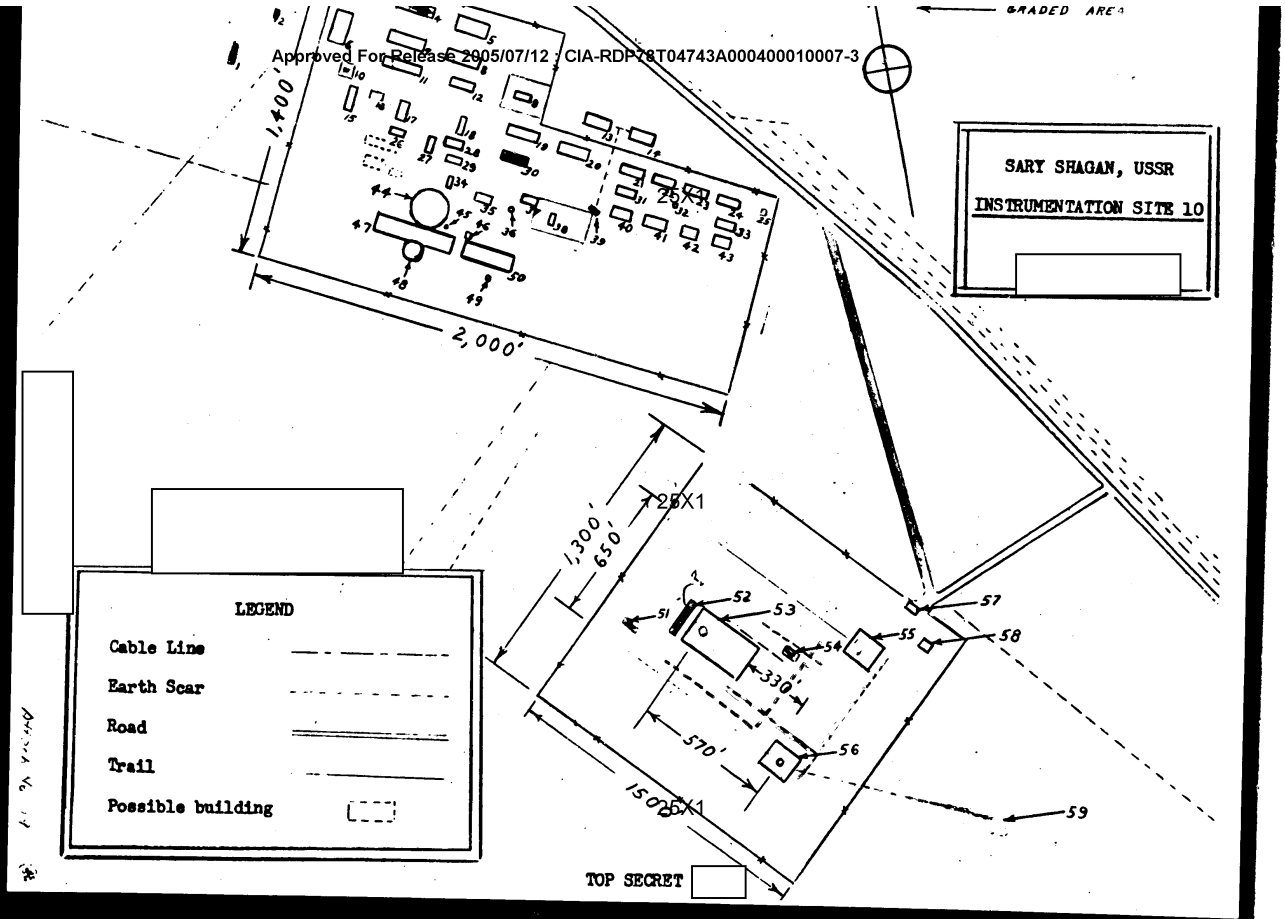

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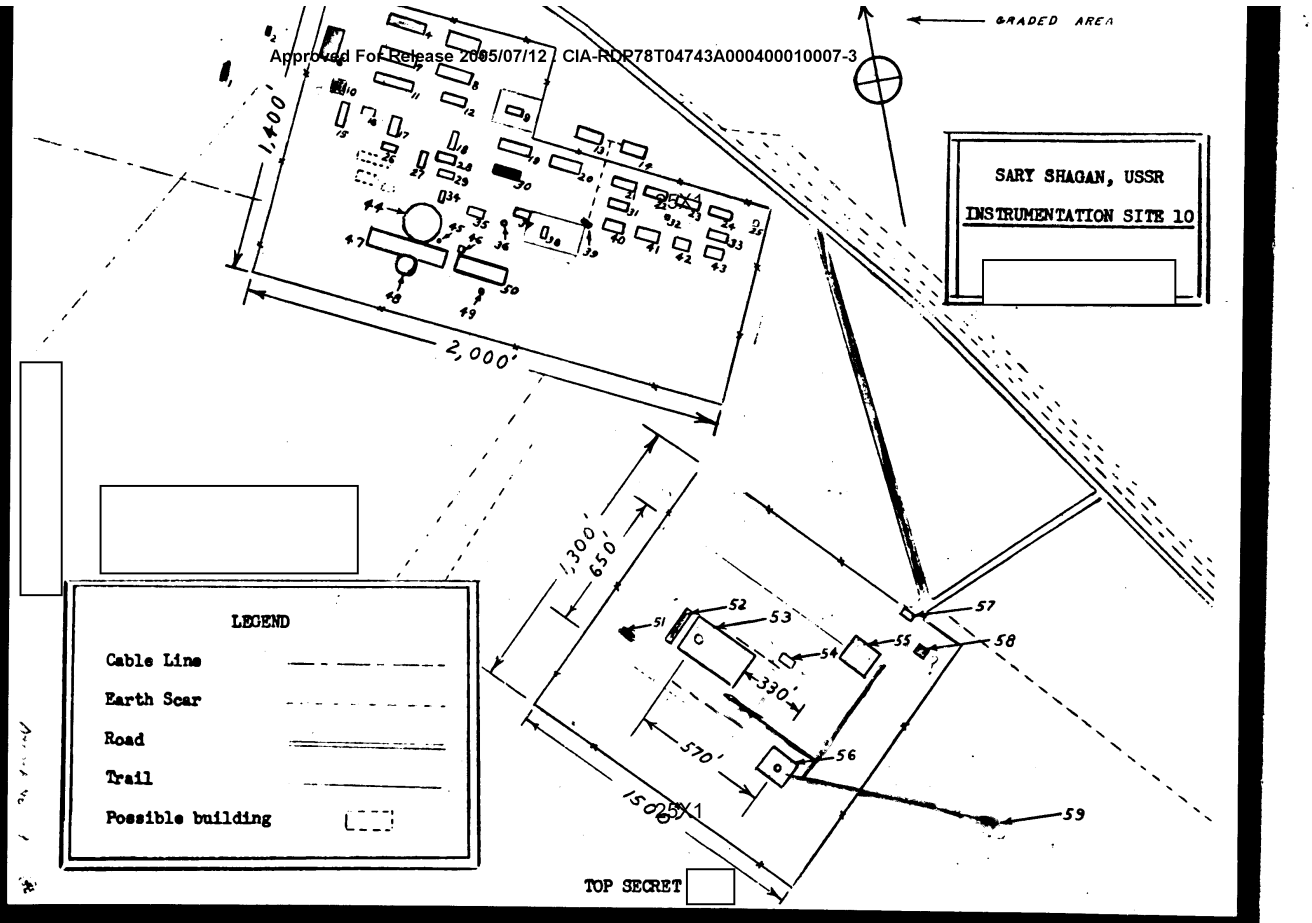

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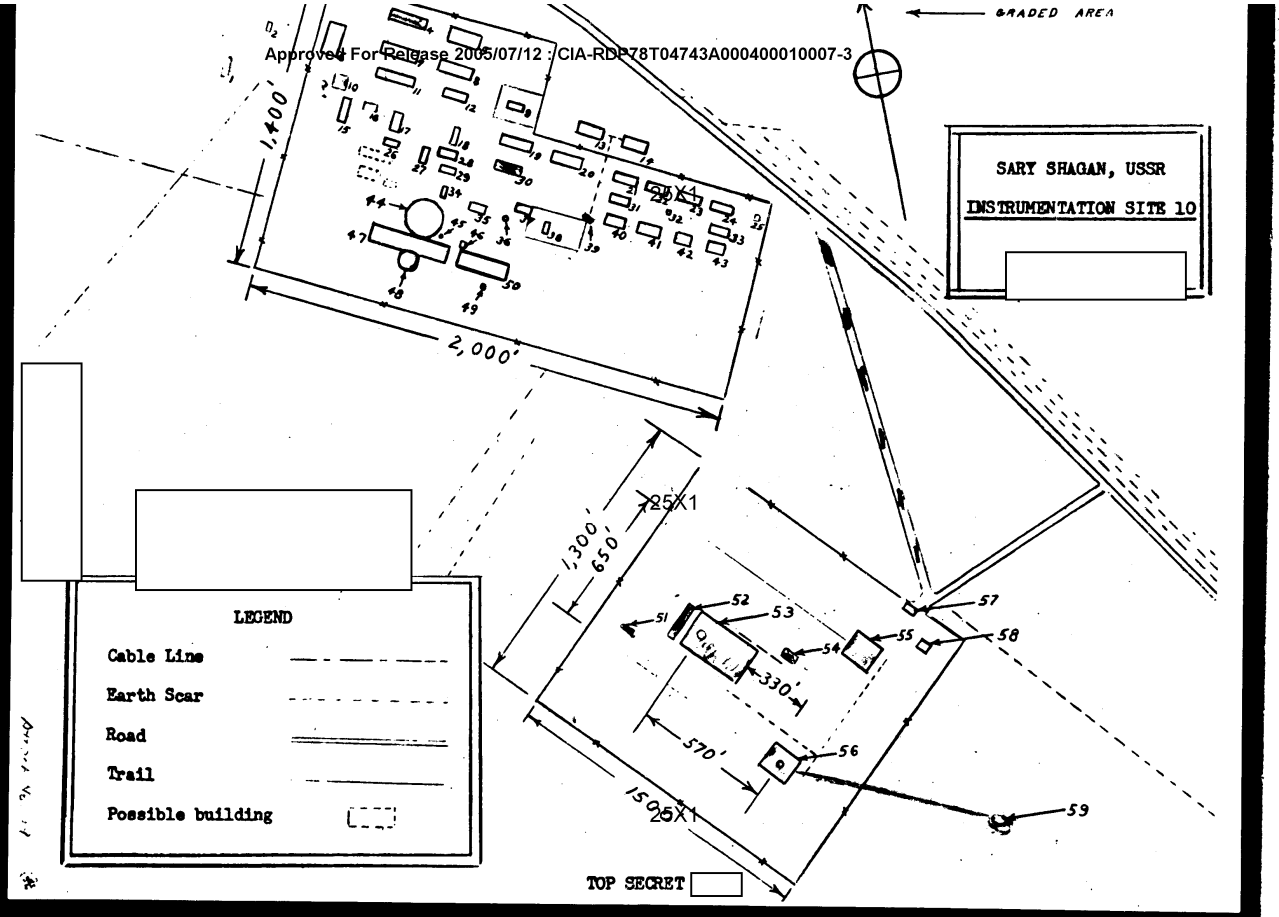

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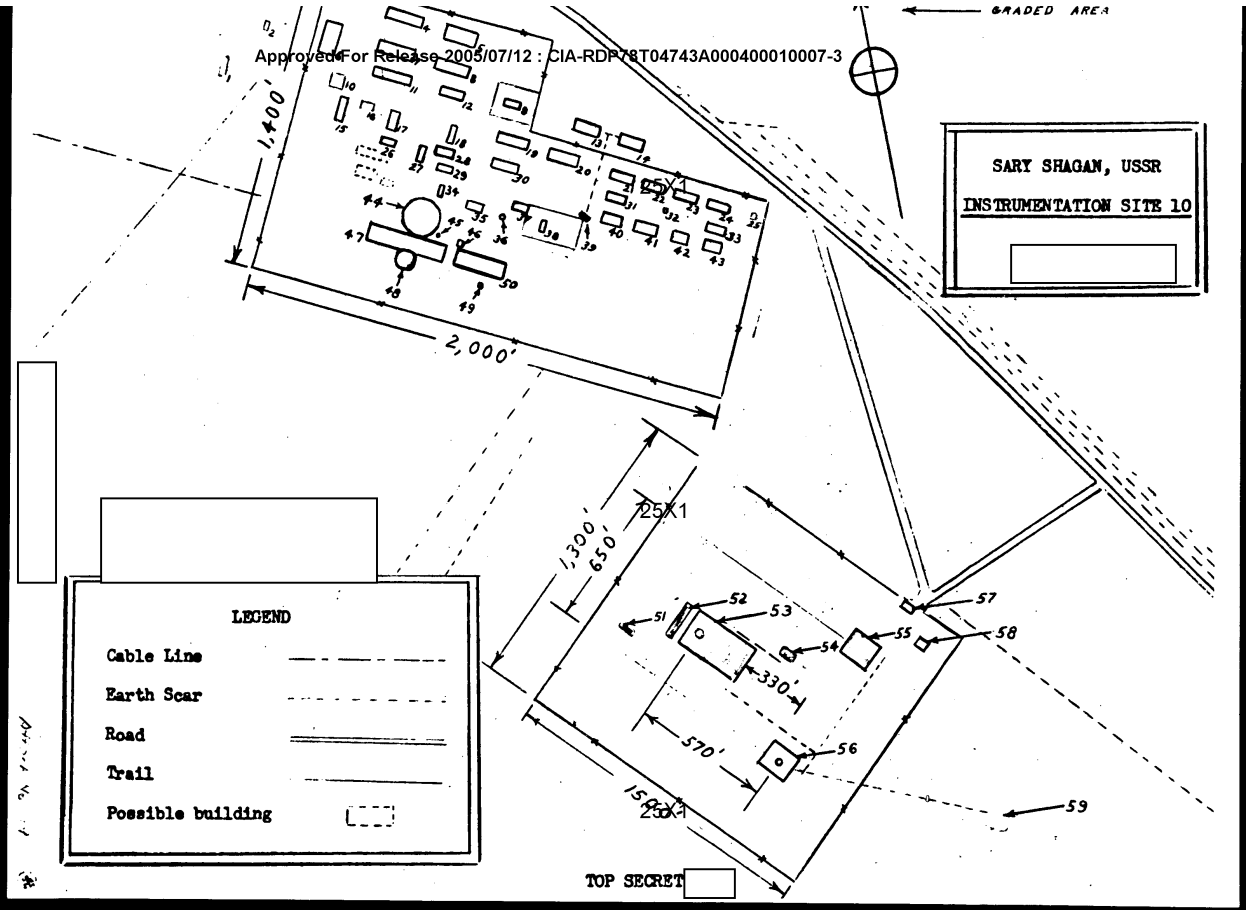

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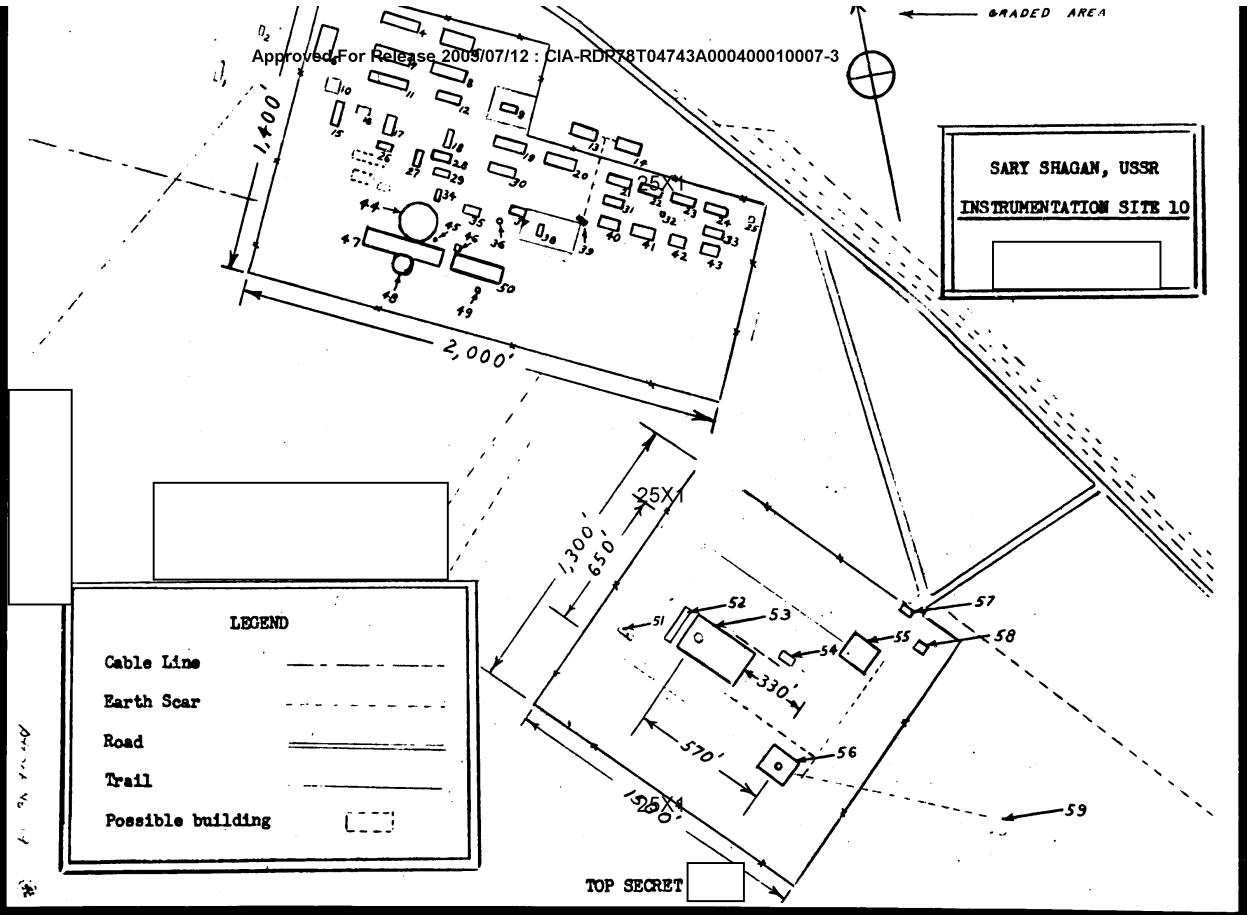

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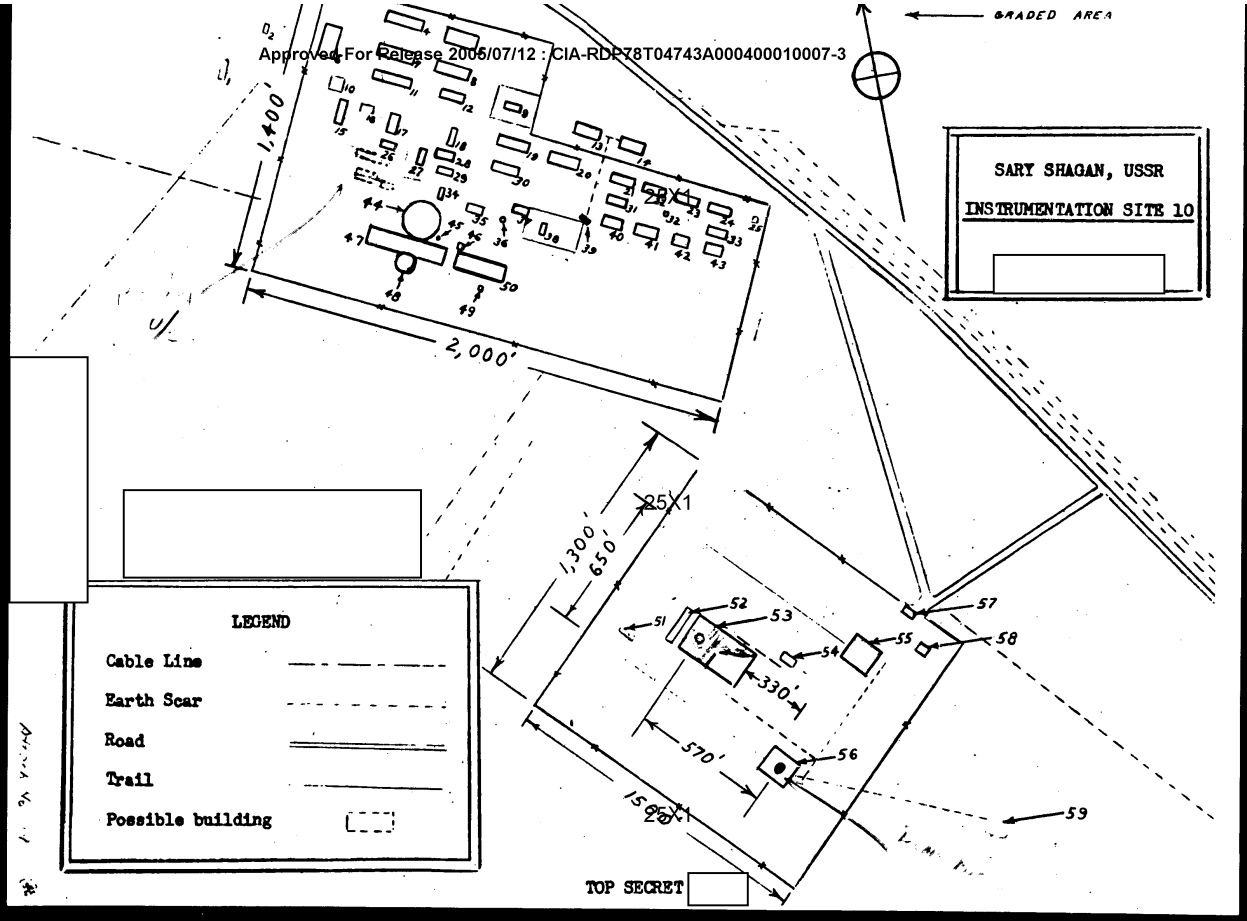

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SARY SHAGAN INSTRUMENTATION SITE NUMBER 10

KEY

Annotation	Item	Approximate Dimensions (ft)	
		Plan	Height
1	Possible shed	30 x 70	10
2	Possible shed	20 x 20	10
3	Building	25 x 25	10
4	Building	25 x 100	10
5	Building	70 x 130	20
6	Building	70 x 130	15
7	Building	40 x 150	15
8	Building	40 x 150	15
9	Building	50 x 50	10
10	Building	50 x 50	10
11	Building	40 x 150	15
12	Building	30 x 90	10
13	Building	40 x 75	10
14	Building	40 x 75	10
15	Building	75 x 30	10
16	Building	25 x 25	10
17	Building	75 x 30	10
18	Building	75 x 30	10
19	Building	40 x 130	10
20	Building	40 x 130	10

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21	Building	30 x 90	10
22	Building	30 x 90	10
23	Building	30 x 90	10
24	Building	30 x 90	10
25	Building	30 x 90	10
26	Building	30 x 40	10
27	Probable building	40 x 80	10
28	Building	30 x 70	10
29	Building	25 x 45	10
30	Probable building	30 x 90	10
31	Building	30 x 90	10
32	Probable building	10 x 10	10
33	Building	30 x 90	10
34	Building	80 x 30	10
35	Building	30 x 50	10
36	Water tower	15 (diameter)	60
37	Building	30 x 50	10
38	Unidentified object in 100 x 170 foot fenced area	25 x 25	15
39	Possible building	30 x 50	10
40	Building	30 x 90	10
41	Building	30 x 90	10
42	Building	30 x 90	10
43	Building	30 x 90	10

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44	Spherical dome	120 (diameter)	
45	Possible mast		160
46	Dish shaped object (possible radar)	35 (across)	40
47	Control building	65 x 265	15
48	Spherical dome	50 (diameter)	
49	Unidentified object	10 x 10	5 - 10
50	Building	50 x 185	10
51	Probable construction shed	15 x 60	10
52	Building	130 x 30	10 - 15
53	Building	130 x 230	30
54	Probable construction shed	30 x 50	10
55	Building	90 x 90	30
56	Building	90 x 90	30
57	Building	30 x 55	15
58	Shed	30 x 55	10
59	Roughly circular area with possibly four masts in a square Adcock pattern . . . . . approximately 1,300 feet in front of Building 53	60 (diagonal)	

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TEXTUAL CHRONOLOGY
of
CONSTRUCTION ACTIVITY AT INSTRUMENTATION SITE 13, SARY SHAGAN, USSR

(Keyed to Graphic Chronology - Attachment 22)

25X1

1. [redacted]
25X1 No apparent activity

2. [redacted]

a. The triad installation is under construction. The north support area has about 21 structures with a total floor space of approximately 50,000 square feet. The south support area appears to have two complete structures and two possibly under construction, for a total floor space of approximately 12,000 square feet.

b. A construction support area is located south of the triad area, near the lake shore. Detected in the area are about three small buildings and a probable batch plant.

25X1 c. A borrow pit is located approximately 2,500 feet north-northwest of the triad installation.

3. [redacted]

The triad area shows continued construction activity, with trench work
25X1 apparent in the vicinity of the buildings. Minor construction activity is noted in the south support area. No change in the north support area.

4. [redacted]

Construction activity continues in the triad area. Building 3 appears to
25X1 be complete. Two small buildings have been added in the construction support area.

5. [redacted]

25X1 Buildings 3 and 4 appear to be complete. Work on Buildings 1 and 2 possibly continues.

6. [redacted]

a. Buildings 1, 3, and 4 appear to be complete. Roof work on Building 2 continues. A possible dish type device can be detected on the rear of the large building (Building 2). A smaller unidentified shape is sited near the center of the building.

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25X1 b. The construction support area now has approximately five buildings having a total floor space of approximately 8,000 square feet.

7. [redacted]

a. Construction activity on the roof of Building 2 continues. Two objects casting shadows appear on the roof. One is located approximately to the rear of center, while the other is located near the edge of the roof, at the rear of the building.

b. Construction activity has markedly increased since the last mission. Seven buildings have been added to the south support area. There are now 12 buildings in the south support area for a total floor space of approximately 26,500 square feet.

c. The borrow pit north-northeast of the triad area has been increased in size by at least 100 percent.

25X1 8. [redacted]

a. All structures in the triad area appear to be complete, however there is evidence of possible construction activity in the secured area.

b. A circular shadow can be seen falling on the roof of Building 1. It is cast by the probable dish shaped object mounted near the edge of the roof at the rear of Building 2.

c. A new trench is visible in the north support area.

d. Construction activity in the south support area continues.

e. The increased activity in the borrow pit continues.

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TOP SECRET

SARY SHAGAN, USSR

INSTRUMENTATION SITE 13

25X1

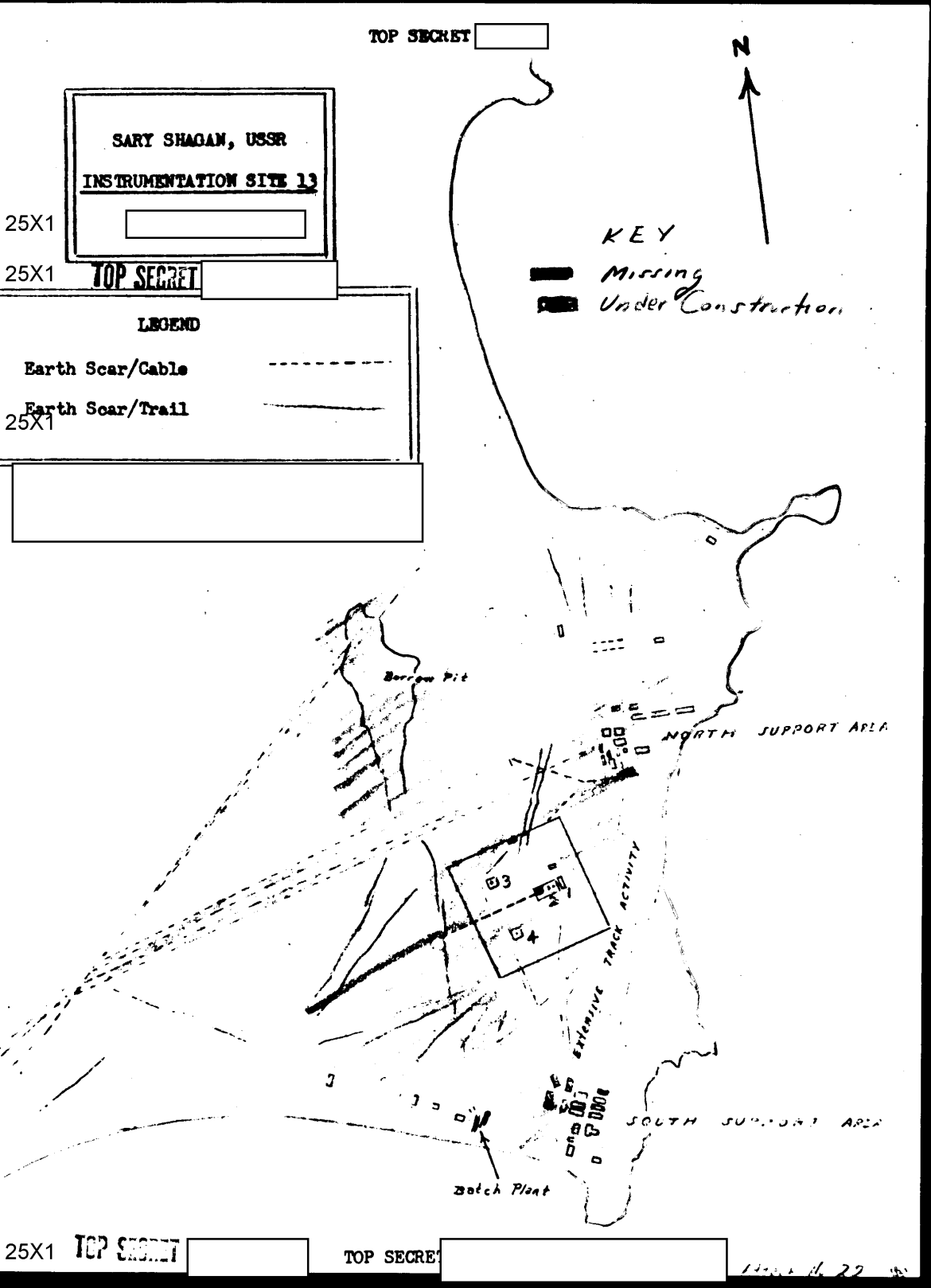
25X1 TOP SECRET

LEGEND

Earth Scar/Cable

Earth Scar/Trail

25X1



25X1 TOP SECRET

TOP SECRET

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TOP SECRET

SARY SHAGAN, USSR

INSTRUMENTATION SITE 13

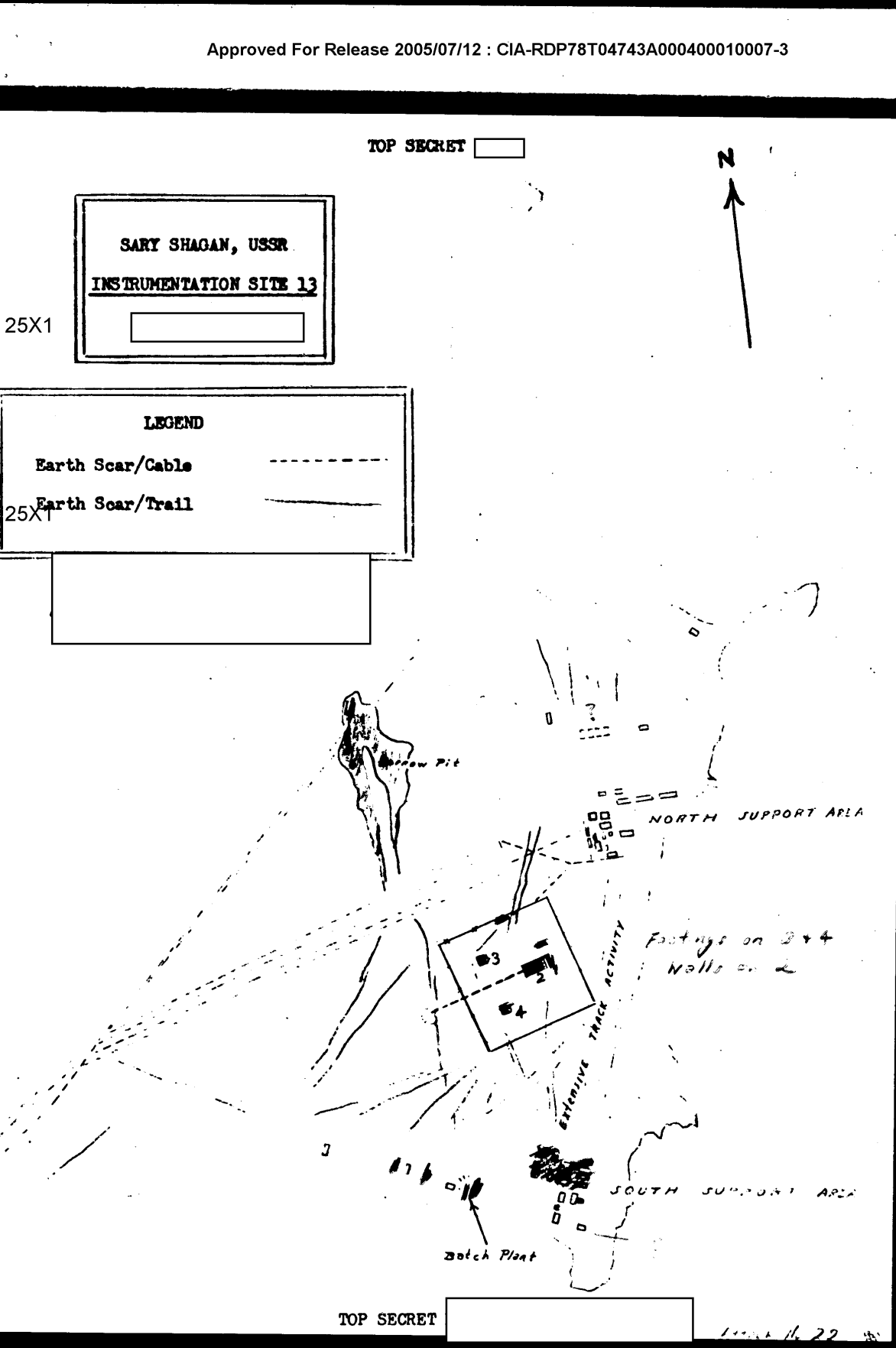
25X1

LEGEND

Earth Scar/Cable ----------

Earth Scar/Trail ——————

25X1



TOP SECRET

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TOP SECRET

SARY SHAGAN, USSR

INSTRUMENTATION SITE 13

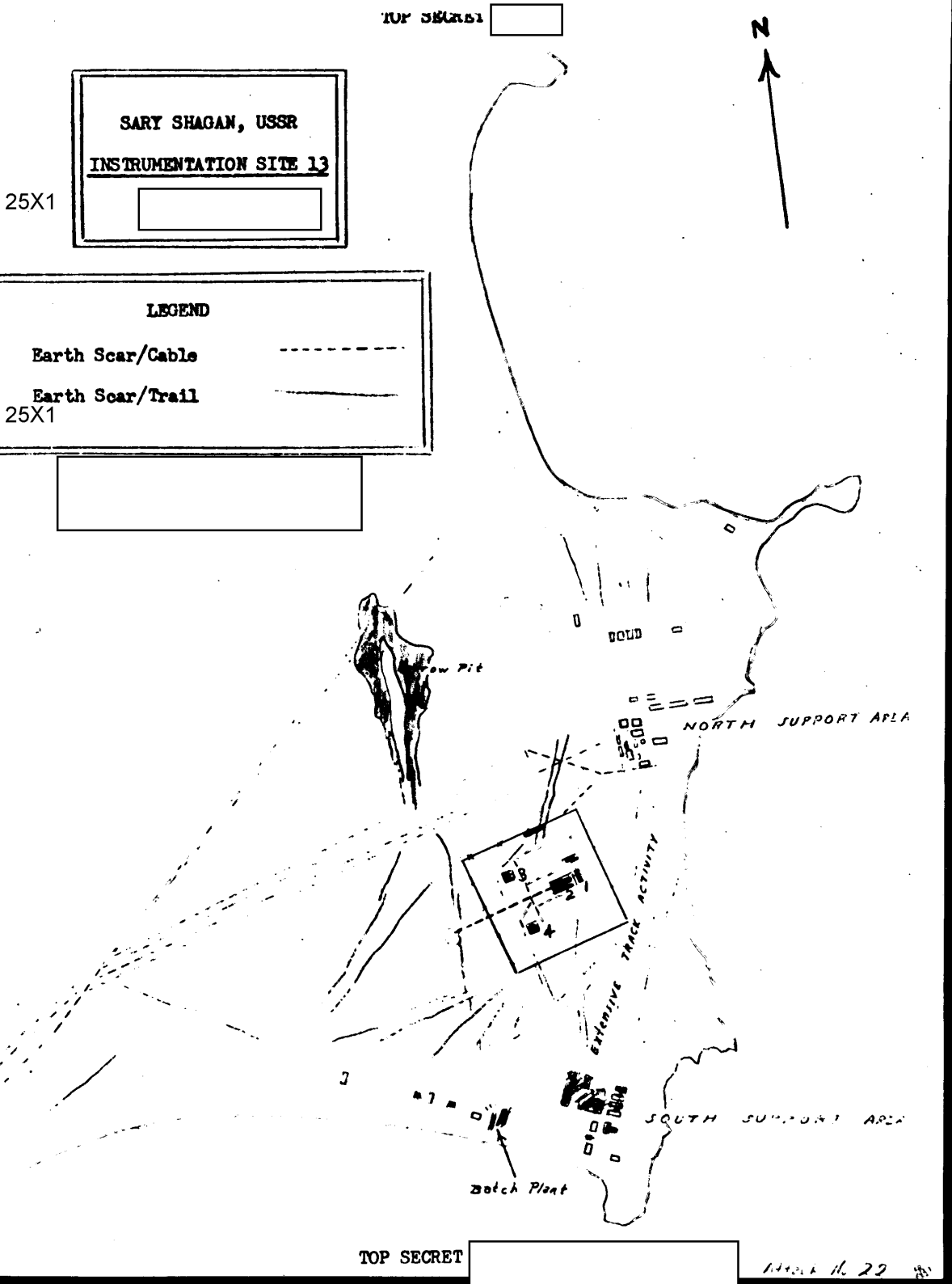
25X1

LEGEND

Earth Scar/Cable ----------

Earth Scar/Trail ——————

25X1



TOP SECRET

ANNEX K 22

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TOP SECRET

SARY SHAGAN, USSR

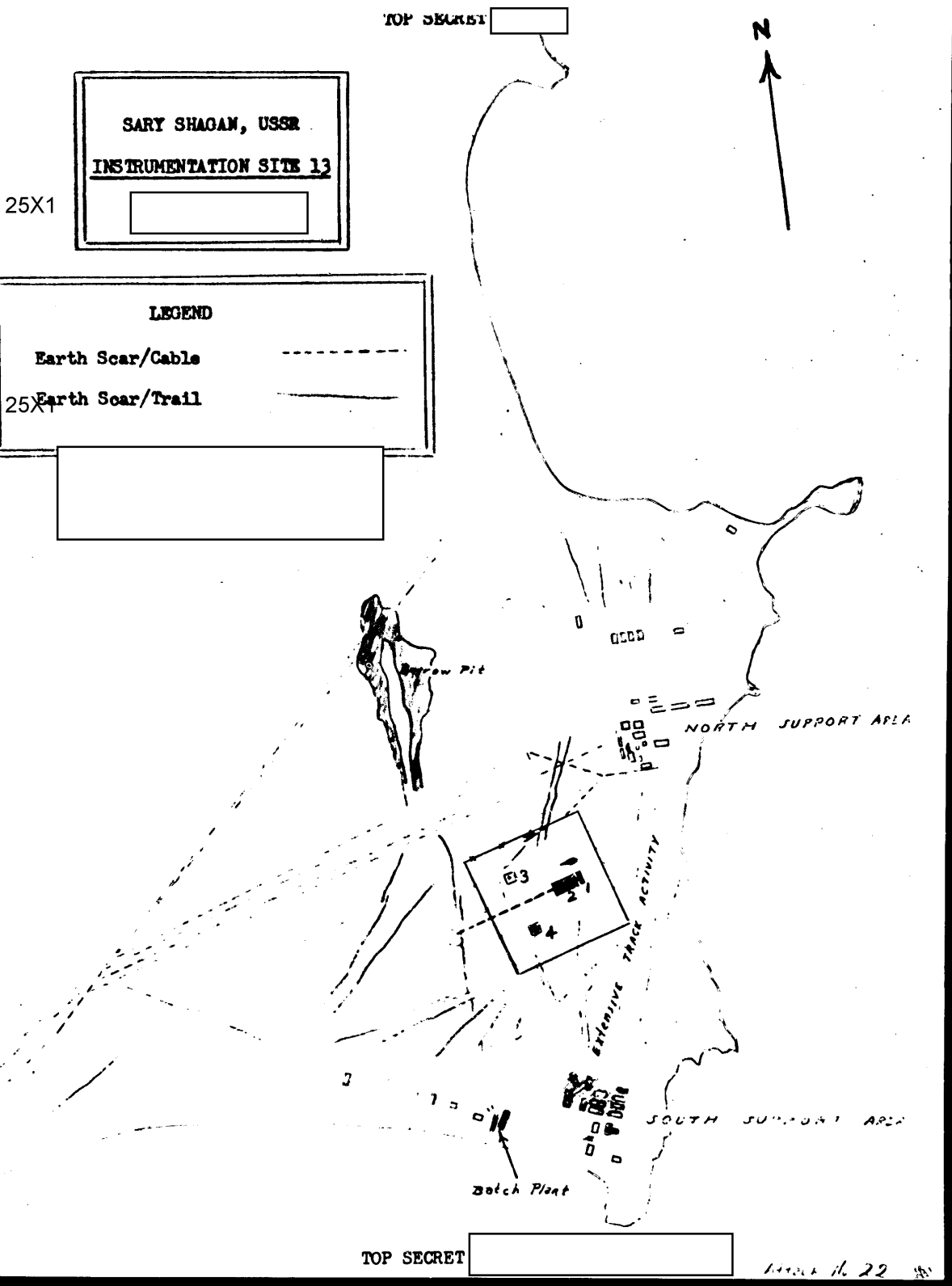
INSTRUMENTATION SITE 13

25X1

LEGEND

Earth Scar/Cable

25X1 Earth Scar/Trail



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SARY SHAGAN, USSR

INSTRUMENTATION SITE 13

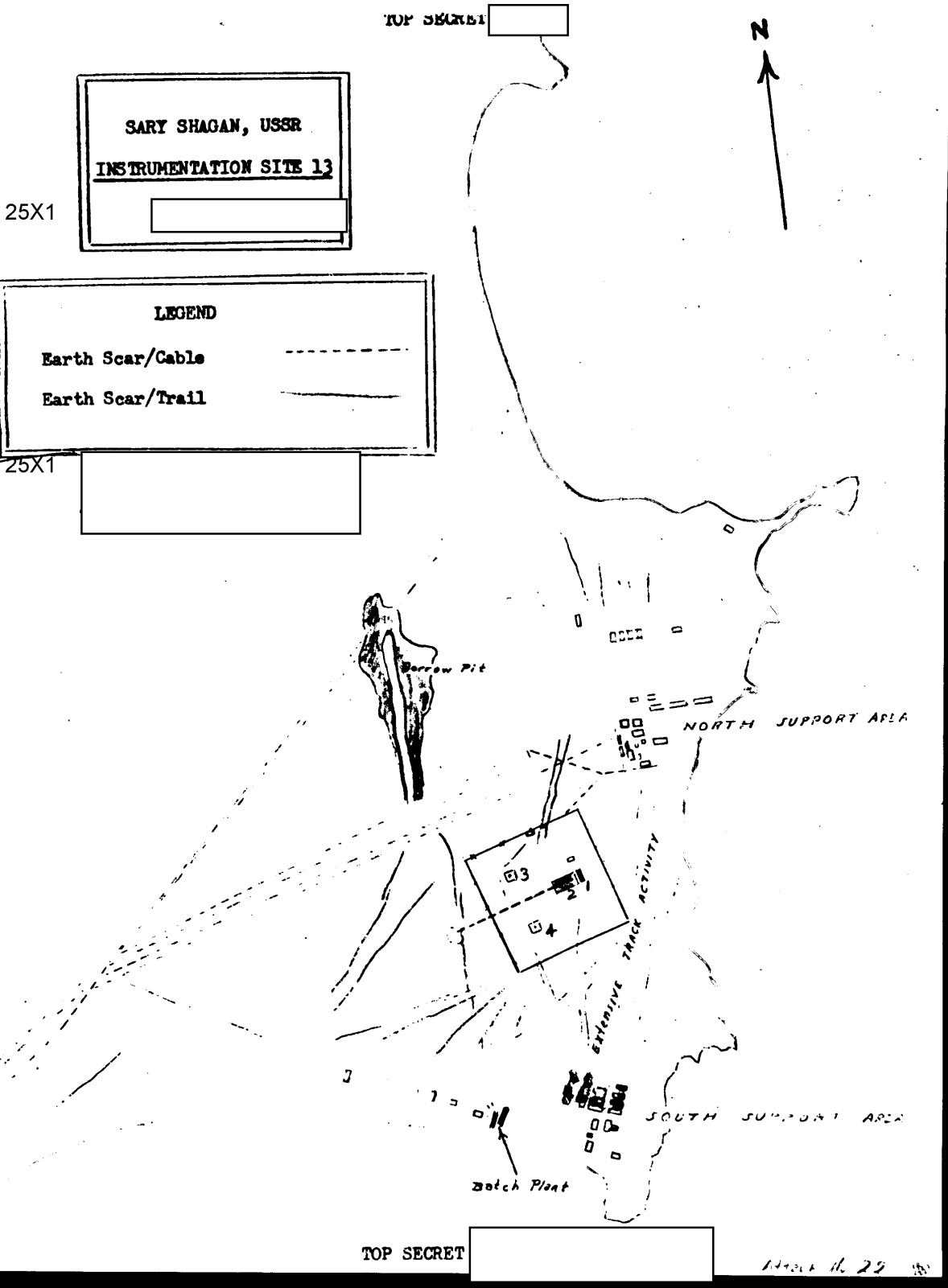
25X1

LEGEND

Earth Scar/Cable

Earth Scar/Trail

25X1



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SARY SHAGAN, USSR

INSTRUMENTATION SITE 13

25X1

LEGEND

Earth Scar/Cable ----------

Earth Scar/Trail ——————

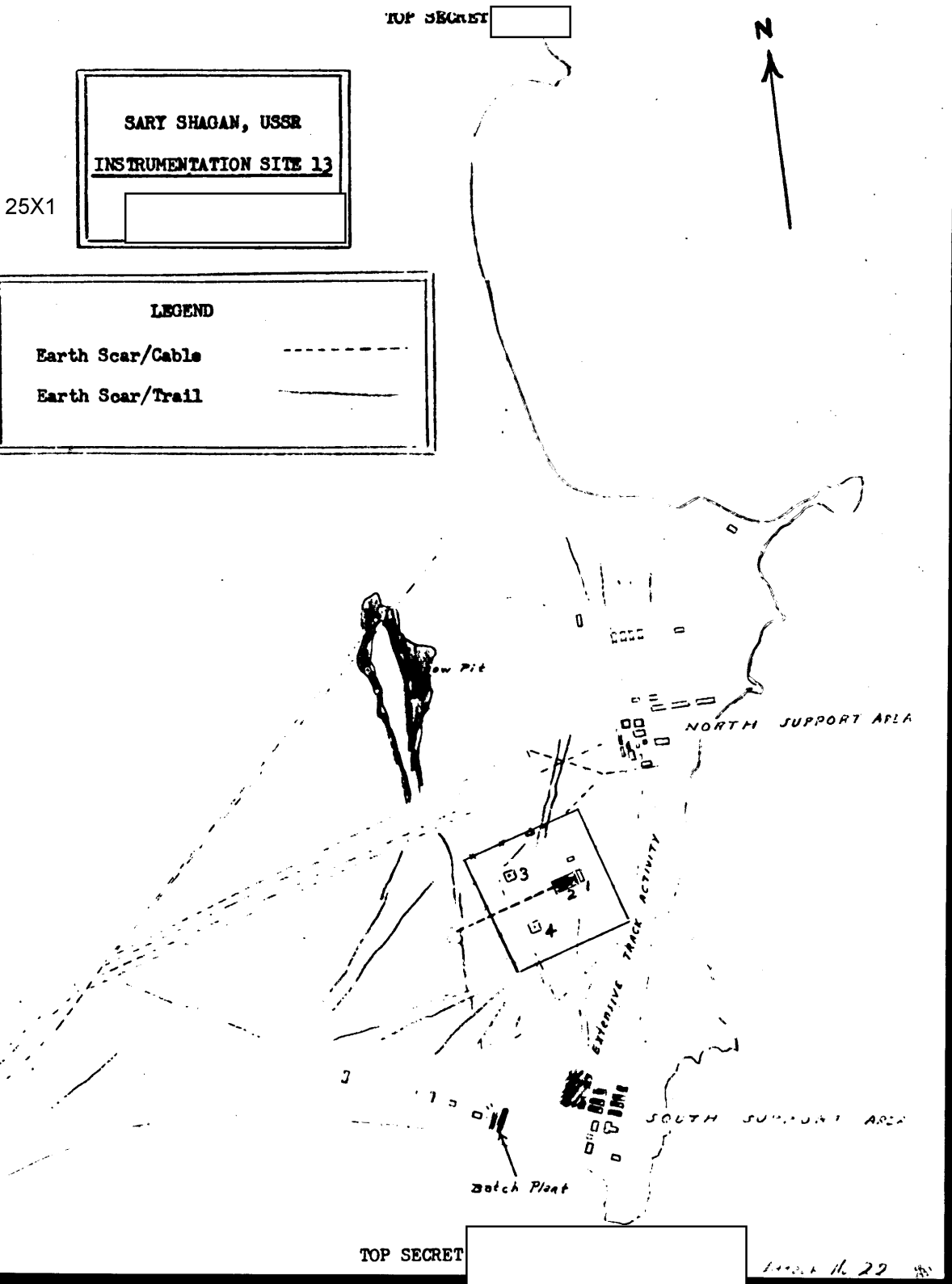

Figure No. 22

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TOP SECRET

SARY SHAGAN, USSR

INSTRUMENTATION SITE 13

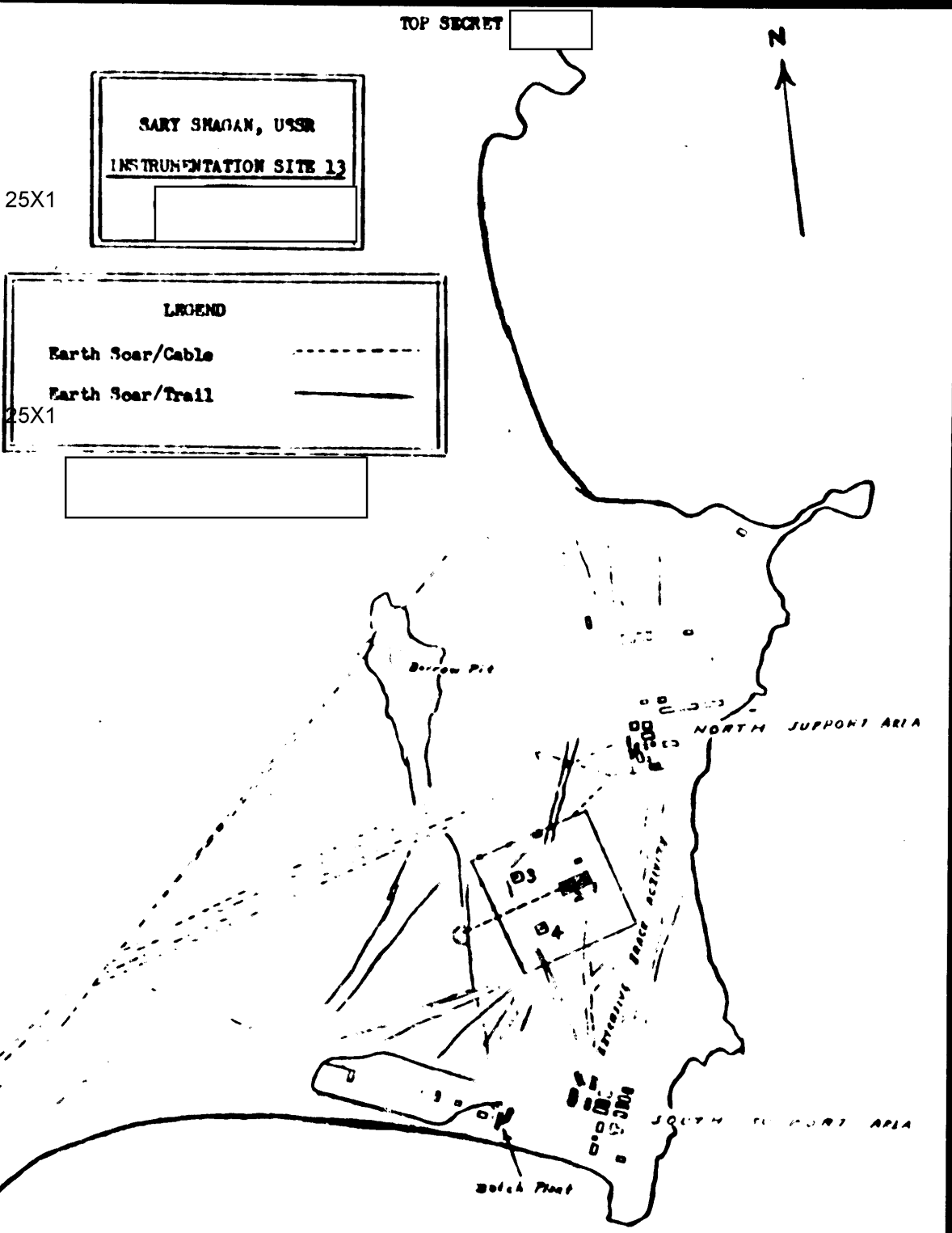
25X1

LEGEND

Earth Scar/Cable

Earth Scar/Trail

25X1



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TOP SECRET

SARY SHAGAN, USSR

INSTRUMENTATION SITE 13

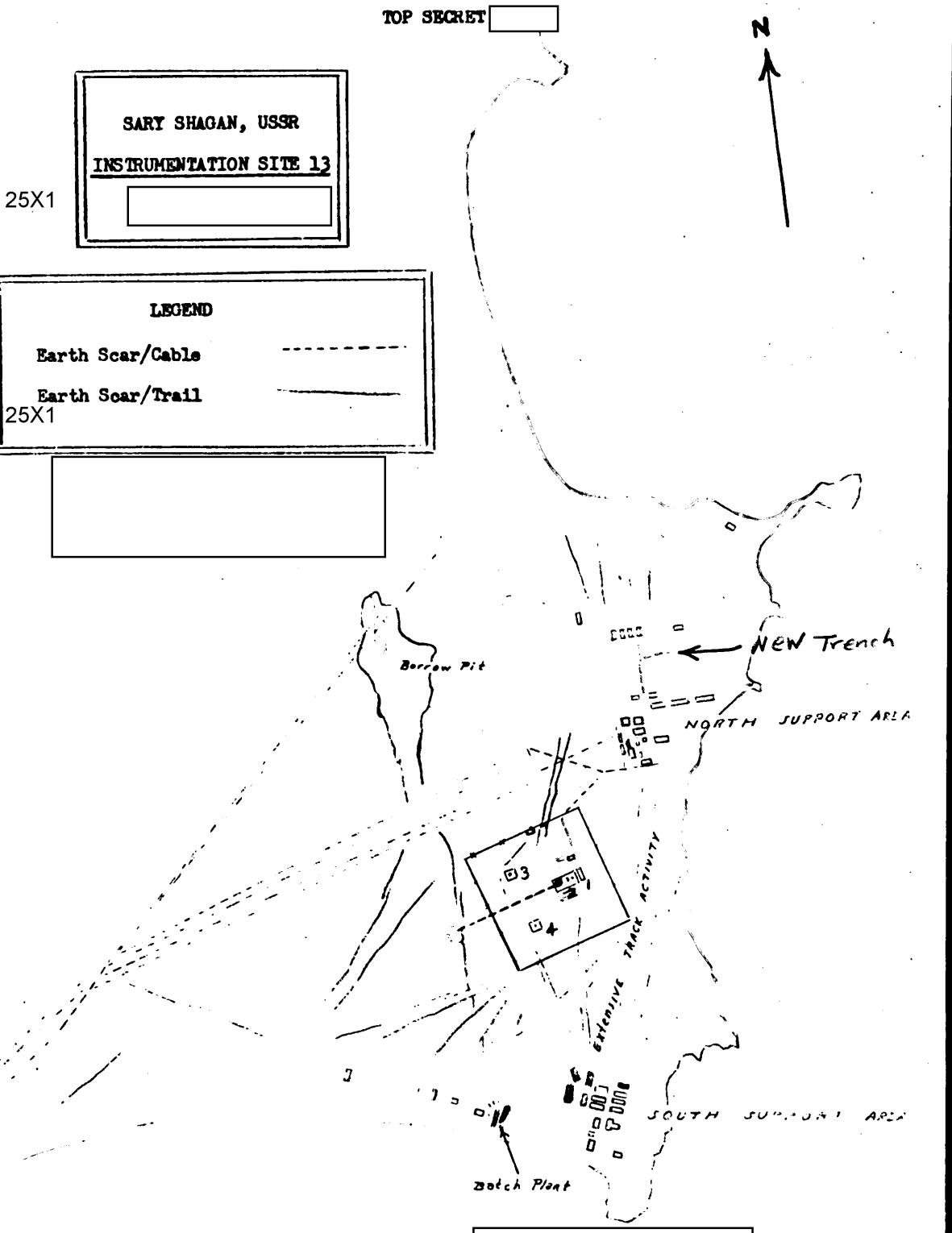
25X1

LEGEND

Earth Scar/Cable

Earth Scar/Trail

25X1



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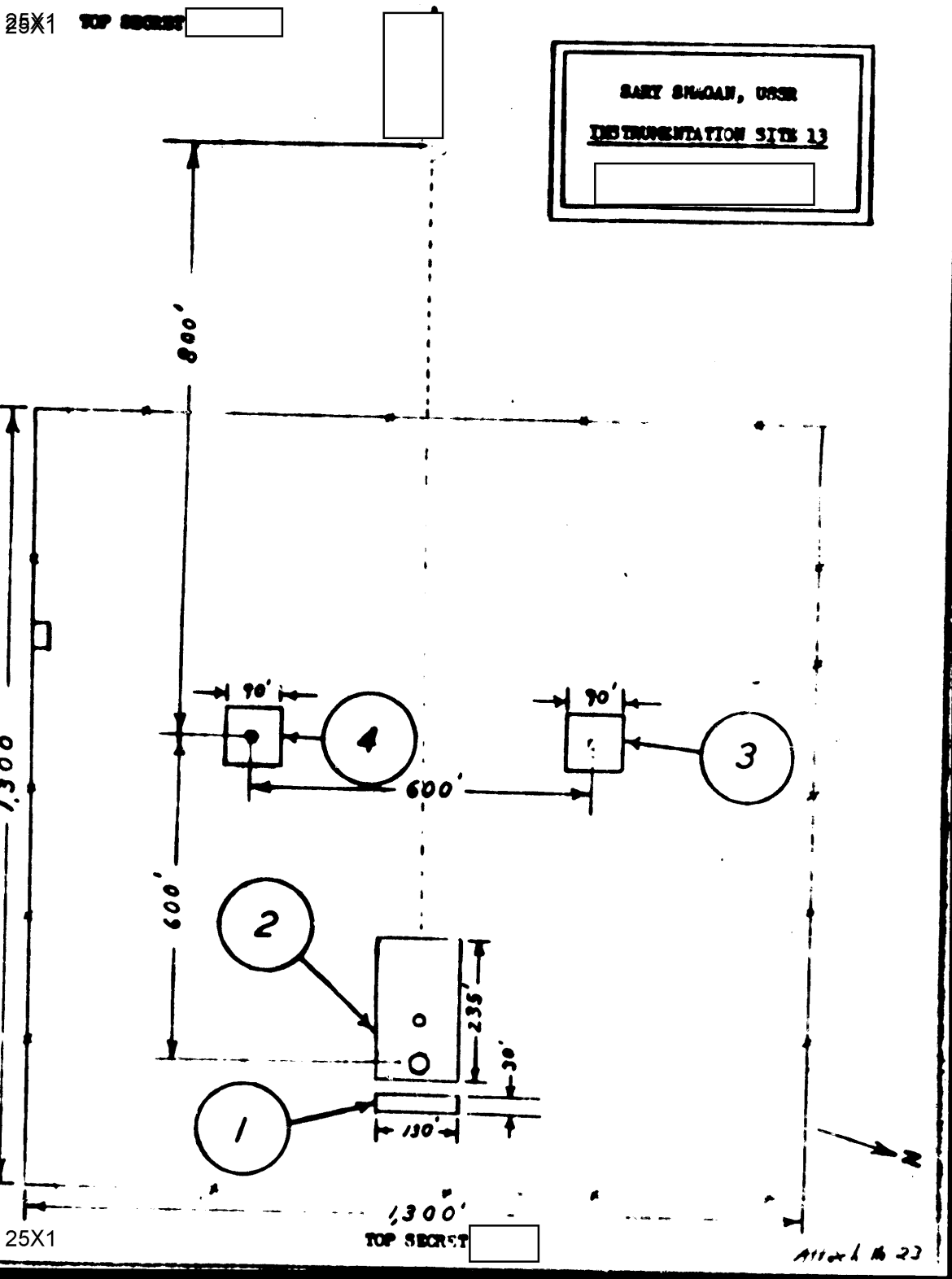
Approved For Release 2005/07/12 : CIA-RDP78T04743A000400010007-3

25X1 TOP SECRET



25X1 TOP SECRET

Attach No 23

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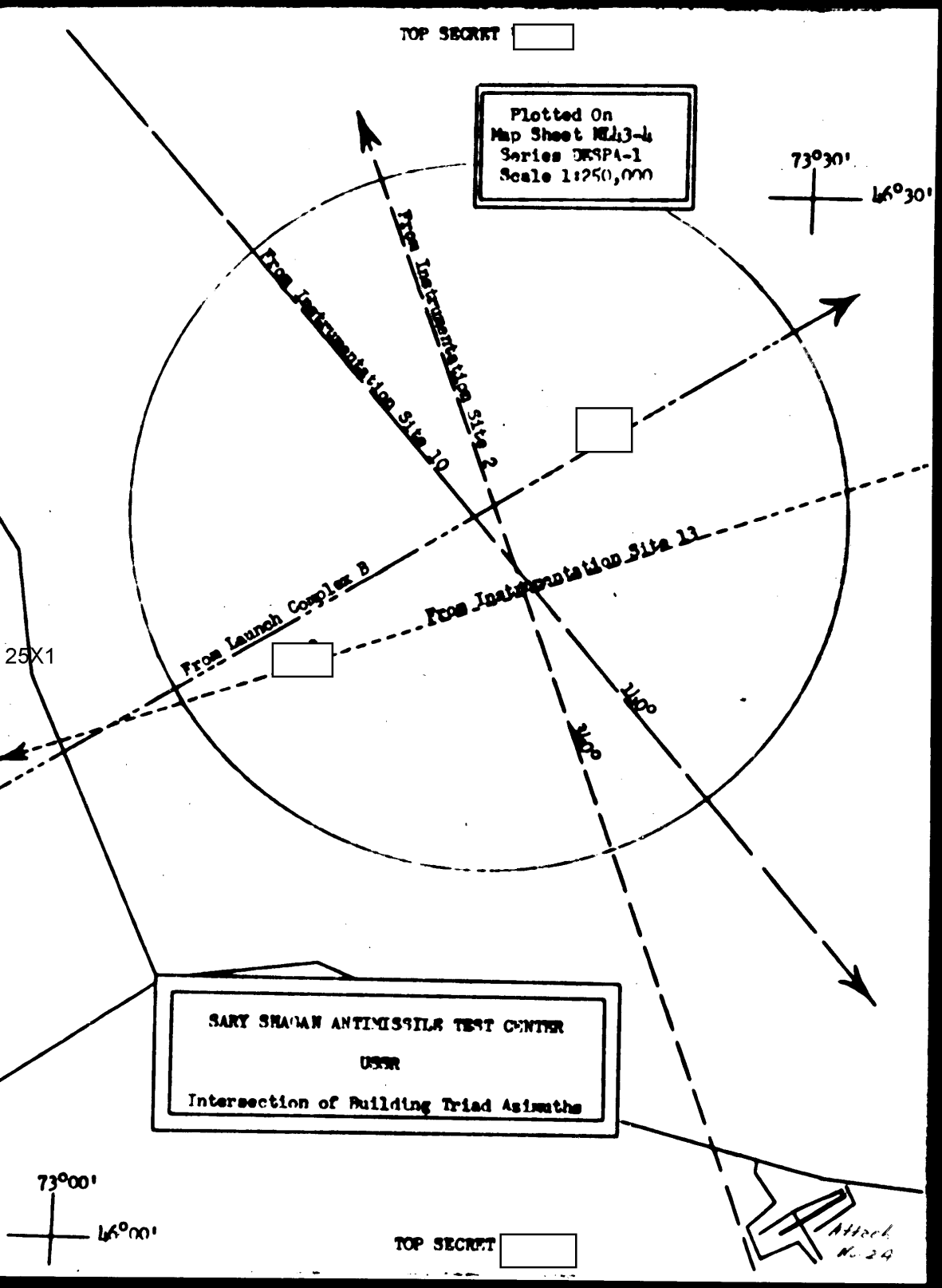

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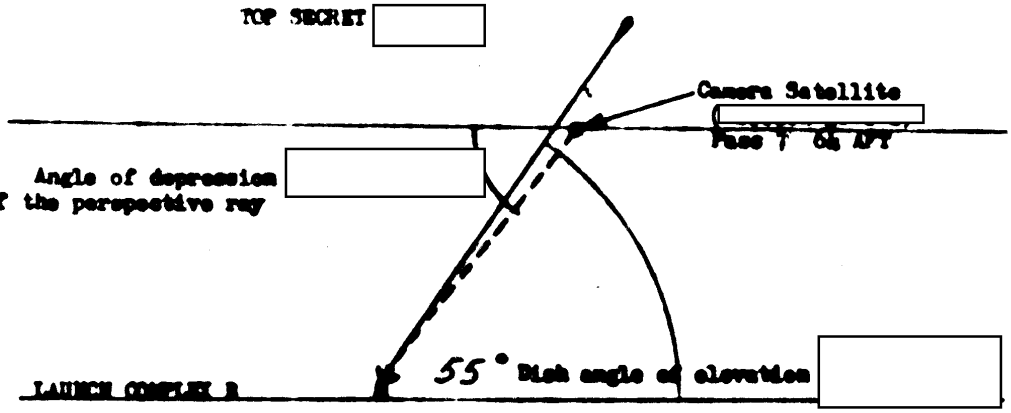
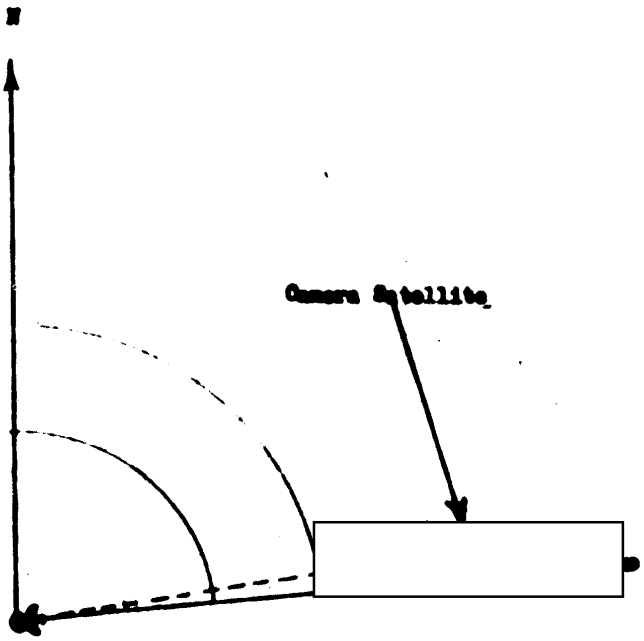
25X1

TOP SECRET



Horizontal and Vertical Distances are not shown to scale

Slant Range is approximately 1[illegible] nautical miles



Azimuthal Relationship

PHOTOGRAMMETRIC ANALYSIS OF THE POSSIBILITY OF THE SOVIETS

TRACKING

FROM LAUNCH COMPLEX B, SARY SHAGAN ANTIMISSILE TEST CENTER

TOP SECRET

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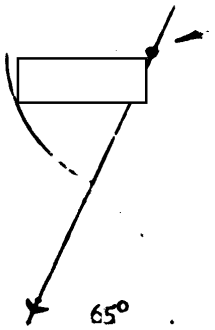
25X1

TOP SECRET [redacted]

Camera Satellite [redacted]

Pass 7 80 FWD

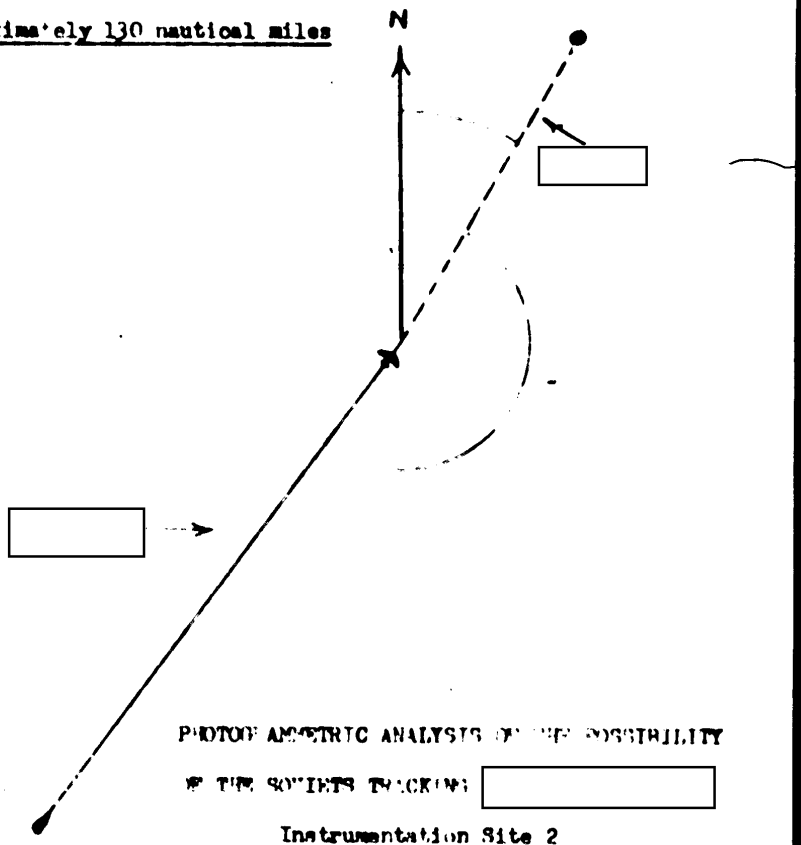
25X1 Angle of depression of the perspective ray



INSTRU MENTATION SITE 2 65° . Dish Angle of elevation [redacted]

Horizontal and Vertical Distances are not shown to scale

Slant Range is approximately 130 nautical miles



25X1

PHOTOGRAMMETRIC ANALYSIS OF THE POSSIBILITY OF THE SOVIETS TRACKING [redacted]

Instrumentation Site 2

SARY SHAGAN ANTIMISSILE TEST CENTER

TOP SECRET [redacted]

Attach. No. 26

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25X1

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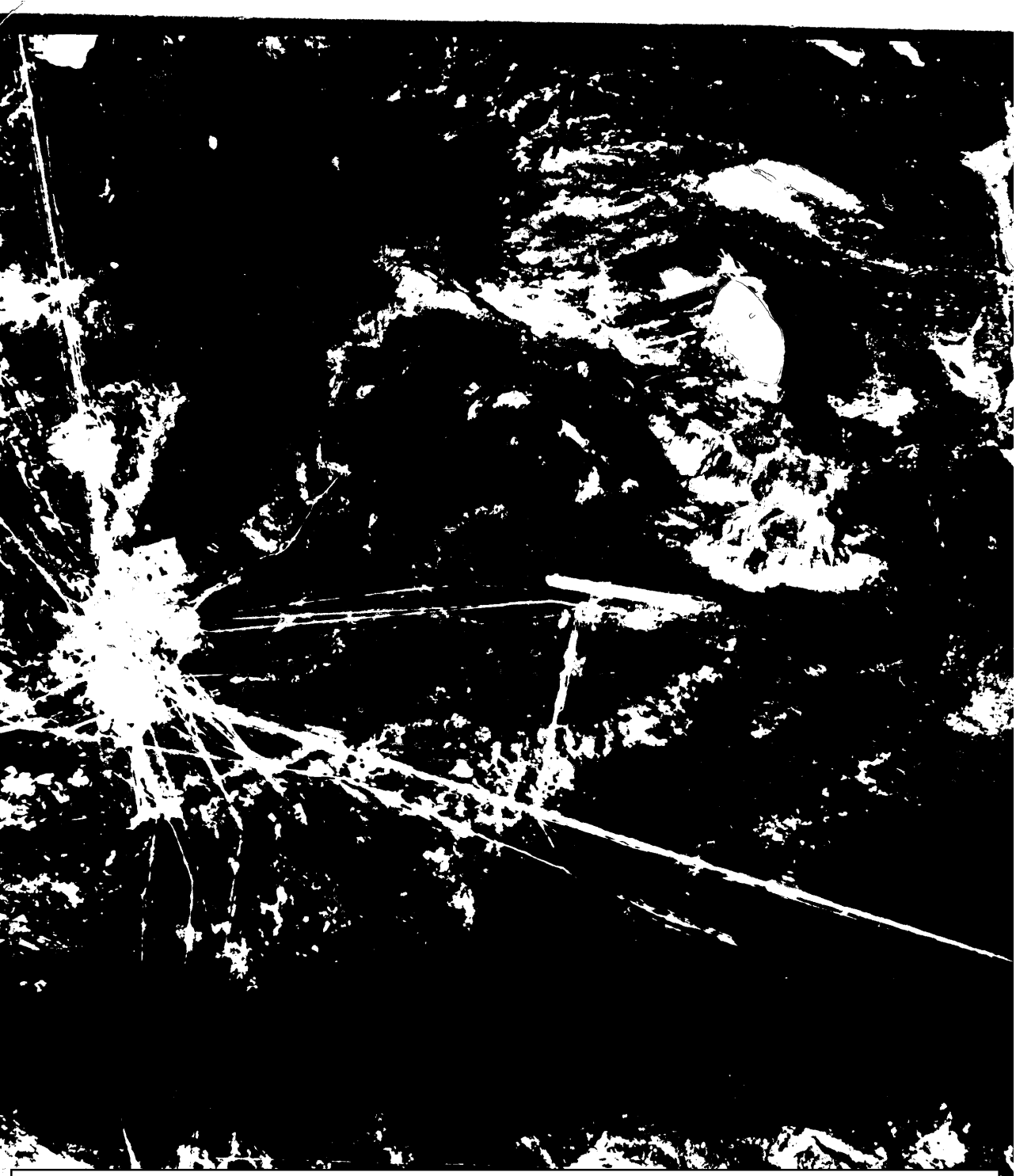

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25X1

Approved For Release 2005/07/12 : CIA-RDP78T04743A000400010007-3

Approved For Release 2005/07/12 : CIA-RDP78T04743A000400010007-3

[redacted]

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25X1

Approved For Release 2005/07/12 : CIA-RDP78T04743A000400010007-3

Approved For Release 2005/07/12 : CIA-RDP78T04743A000400010007-3